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Items with secondary classifications in 00A06

Bohl, Erich ★ Mathematische Grundlagen für die Modellierung biologischer Vorgänge. (German) [Mathematical foundations for the modeling of biological processes] **90k:92002**
Cai, Hai Tao (*with* Ouyang, Wei Cheng; Liu, Yi Hong) ★ Xiandai shehui kexue de shuxue fangfa. (Chinese) [Mathematical methods in modern social science] (Not in MR)
(Kreikenbohm, R.) *see* **Bohl, Erich, 90k:92002**
Liu, Yi Hong *see* **Cai, Hai Tao; et al.,** (Not in MR)
Ouyang, Wei Cheng *see* **Cai, Hai Tao; et al.,** (Not in MR)
Saaty, T. L. ★ Mathematical methods of operations research. **90h:90001**
Schmidt, Gunther W. (*with* Ströhlein, Thomas) ★ Relationen und Graphen. (German) [Relations and graphs] **90g:00001**
Ströhlein, Thomas *see* **Schmidt, Gunther W., 90g:00001**

00A07 Problem books

Gavrilov, G. P. (*with* Sapozhenko, A. A.) ★ Selected problems in discrete mathematics. **90m:00011**
(Kalinin, Konstantin) *see* **Krasnov, M. L.; et al., 90k:00014**
Kiselev, A. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Krasnov, M. L. (*with* Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] **90k:00014**
Makarenko, G. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Sapozhenko, A. A. *see* **Gavrilov, G. P., 90m:00011**
(Wadhwa, Natalia V.) *see* **Gavrilov, G. P., 90m:00011**
(Wadhwa, R. S.) *see* **Gavrilov, G. P., 90m:00011**

00A08 Mathematical recreation

Chebotarevskiĭ, B. D. *see* **Duzhin, S. V., 90d:00005**
(Conway, John Horton) *see* **Gardner, Martin, 90d:00006**
Duzhin, S. V. (*with* Chebotarevskiĭ, B. D.) ★ От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] **90d:00005**
Gardner, Martin ★ Gardner's whys & wherefores. **90c:00003**
— ★ Mathematical carnival. **90d:00006**
— *see also* **Rucker, Rudy,** (Not in MR)
Hammersley, J. M. Room to wriggle. **90b:00005**
Rucker, Rudy ★ The fourth dimension. (Not in MR)

Items with secondary classifications in 00A08

Beasley, J. D. ★ The mathematics of games. **90k:90181**
Boltyanskiĭ, V. G. Rotation and central symmetry. (Russian) **90m:51005**
Davis, Philip J. ★ Thomas Gray, philosopher cat. **90c:01006**
(Dorian, Marguerite) *see* **Davis, Philip J., 90c:01006**
Sallows, Lee C. F. A curious new result in switching theory. **90k:94036**
Specker, Ernst Postmoderne Mathematik: Abschied vom Paradies? (English and French summaries) [Post-modern mathematics: departure from paradise?] **90d:00058**
Yu, L.-X. Symmetry in Chinese arts and crafts. **90d:01008**

00A10 Collections of papers (miscellaneous content)

(Abutaliev, È. B.) *see* **Numerical and analytical methods for solving problems in mathematics and mechanics, 90d:00026**
(Agoshkov, V. I.) *see* **Conjugate equations and perturbation algorithms, 90h:00002**
(Aleksandrova, R. S.) *see* **Constructive theory of functions and functional analysis, 90j:00008**
(Anderson, T. W.) *see* **Probability, statistics, and mathematics, 90j:00012**
(Ashirov, S. A.) *see* **Investigations in the theory of differential equations, 90d:00022**
(Athreya, Krishna B.) *see* **Probability, statistics, and mathematics, 90j:00012**
(Azbelev, N. V.) *see* **Boundary value problems, 90d:00012** *and* **90k:00017**
(Badalov, F. B.) *see* **Numerical and analytical methods for solving problems in mathematics and mechanics, 90d:00026**
(Ball, Robin) *see* **Fractals in the natural sciences, 90m:00020**

Bânzaru, T.) *see* **Proceedings: Seminar on Mathematics and Physics, 90a:00010**
Berezanskiĭ, Yu. M.) *see* **Boundary value problems for differential equations, 90d:00013**
Berman, S. D.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
Bibikov, Yu. N.) *see* **Dynamic processes and their stability, 90d:00018**
Boĭkov, I. V.) *see* **Optimal computation methods and their application, 90d:00028**
Borisovich, Yu. G.) *see* **Topological and geometric methods of analysis, 90k:00023**
Borneas, M.) *see* **Proceedings: Seminar on Mathematics and Physics, 90a:00010**
Burlacu, E.) *see* **Proceedings: Seminar on Mathematics and Physics, 90a:00010**
Colombini, Ferruccio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**
Cotlar, Mischa) *see* **Analysis and partial differential equations, 90j:00006**
Crstici, Borislav) *see* **Proceedings: Seminar on Mathematics and Physics, 90a:00010**
Déchamps-Gondim, Myriam) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
De Giorgi, E.) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**
Dorogovtsev, A. Ya.) *see* **Mathematics today '89, 90d:00023** *and* **Mathematics today '87, 90h:00009**
Engel′son, E.) *see* **Topological spaces and their mappings, 90j:00014**
Fang, Li Zhi) *see* **Advances in science of China. Physics, 90d:00007**
Fleischmann, M.) *see* **Fractals in the natural sciences, 90m:00020**
Fushchich, V. I.) *see* **Symmetric analysis and solutions of equations of mathematical physics, 90d:00033**
Gamkrelidze, R. V.) *see* **Mathematical analysis, 90h:00006; Algebra. Topology. Geometry, 90k:00015; 90m:00012** *and* **Current problems in mathematics. Newest results, 90m:00017**
Gardner, Elizabeth Jane) *see* **Special Issue: In memory of Elizabeth Gardner, 1957–1988,** (Not in MR)
Gasymov, M. G.) *see* **Applied problems in functional analysis, 90d:00008**
Godunov, S. K.) *see* **Functional analysis and mathematical physics, 90k:00020**
Gu, Chao Hao) *see* **Advances in science of China. Mathematics, 90g:00005** *and* **90j:00005**
Hamann, Günther) *see* **Essays: History of natural sciences and geography, 90c:00006**
Hargittai, I.) *see* **Symmetry: unifying human understanding, 90a:00018** *and* **90a:00019**
Iglehart, Donald L.) *see* **Probability, statistics, and mathematics, 90j:00012**
Isaacs, M.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
Ivanov, L. D.) *see* **Geometric questions in the theory of functions and sets, 90h:00005**
Karlin, Samuel) *see* **Probability, statistics, and mathematics, 90j:00012**
Kayumov, È. K.) *see* **Numerical and analytical methods for solving problems in mathematics and mechanics, 90d:00026**
Kim, Y. S.) *see* **Special relativity and quantum theory, 90a:00017**
Klokov, Yu. A.) *see* **Theoretical and numerical studies of boundary value problems, 90j:00013**
Kolesnikov, A. P.) *see* **Numerical methods in problems of mathematical physics, 90a:00008**
Kudryavtsev, L. D.) *see* **Current mathematics in physical engineering problems, 90c:00005**
Kukushkin, A. P.) *see* **Qualitative problems in the theory of differential equations and control systems, 90k:00022**
Lavrent′ev, M. M.) *see* **Mathematical analysis and discrete mathematics, 90h:00007**
Lichtman, Alexander I.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
Lust-Piquard, Françoise) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
Magomedov, G. A.) *see* **Functional analysis, theory of functions and their applications, 90a:00004**
Malanin, V. V.) *see* **Problems in the mechanics of controllable motion, 90c:00009**
Marcu, C.) *see* **Proceedings: Seminar on Mathematics and Physics, 90a:00010**
Marino, Antonio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**
Markov, Andreĭ Andreevich) *see* **Combinatorial-algebraic methods in applied mathematics, 90a:00003**
Matveev, N. M.) *see* **Partial differential equations, 90a:00009** *and* **90h:00010**
Melentsov, A. A.) *see* **Some problems in operator theory, 90a:00016** *and* **Investigations in the theory of approximations, 90g:00006**
Mitropol′skiĭ, Yu. A.) *see* **Asymptotic methods in problems of mathematical physics, 90d:00011**
Modica, Luciano) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**
Moiseev, N. N.) *see* **Mathematical modeling, 90m:00021**
Moser, Jürgen K.) *see* **Analysis, et cetera, 90m:00014**
Narzullaev, Kh. N.) *see* **Problems in algebra and number theory, 90e:00005**
Natanson, I. N.) *see* **Approximation of functions by special classes of operators, 90d:00009**
Nazarov, A. N.) *see* **Problems in mathematical analysis and its applications, 90d:00029**
Noz, Marilyn E.) *see* **Special relativity and quantum theory, 90a:00017**
Numerov, S. N.) *see* **Numerical methods in problems of mathematical modeling, 90d:00027**
Ostapenko, V. A.) *see* **Differential equations and their applications, 90b:00006** *and* **Differential equations and their applications in physics, 90d:00017**
Otarov, A.) *see* **Problems in numerical and applied mathematics, 90d:00031**
Panov, M. I.) *see* **Methodological analysis of mathematical theories, 90d:00024** *and* **Methodological analysis of the foundations of mathematics, 90i:00002**
Passman, D. S.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
Petrov, A. A.) *see* **Mathematical modeling, 90m:00021**
Philippow, E. S.) *see* **Contributions to the theory of electrical engineering , 90j:00009**
Plokhotnikov, K. È.) *see* **Mathematical modeling, 90a:00006**
Pokornyĭ, Yu. V.) *see* **Application of new methods of analysis to differential equations, 90m:00016**
Priĭmak, V. G.) *see* **Mathematical modeling, 90a:00006**
Prilepko, A. I.) *see* **Functional methods in problems of mathematical physics, 90d:00020**
Prokhorov, V. V.) *see* **Qualitative problems in the theory of differential equations and control systems, 90k:00022**
Prössdorf, Siegfried) *see* **Seminar: Analysis, 90d:00032** *and* **90m:00028**
Pustomel′nikov, I. P.) *see* **Differential equations and their applications, 90m:00018**
Queffélec, Hervé) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
(Rabinowitz, Paul H.) *see* **Analysis, et cetera, 90m:00014**
(Ramazanov, Marat D.) *see* **Asymptotic methods in analysis, 90d:00010**
(Riedel, R.) *see* **Asymptotic methods in analysis, 90d:00010**
(Sadosky, Cora) *see* **Analysis and partial differential equations, 90j:00006**
(Samarskiĭ, A. A.) *see* **Current problems in applied mathematics, 90d:00016** *and* **Mathematical modeling, 90m:00021**
(Samoĭlenko, A. M.) *see* **Differential equations with a parameter, 90k:00018**
(Satimov, N. Yu.) *see* **Controllable dynamical systems and their applications, 90d:00015**
(Sburlan, Silviu) *see* **Workshop: Differential Equations, 90d:00035**
(Sehgal, Sudarshan K.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
(Sergienko, I. V.) *see* **Methods and software for optimization, modeling and construction of systems, 90d:00025** *and* **Application program packages and numerical methods, 90j:00007**
(Serra, J.) *see* **Advances in mathematical morphology,** (Not in MR)
(Shabanov-Kushnarenko, Yu. P.) *see* **Problems of bionics, 90h:00011** *and* **90m:00025**
(Shapiro, A. P.) *see* **Algorithmic and numerical problems in algebra and number theory, 90k:00016**
(Sharipov, Sh. R.) *see* **Qualitative and analytic methods in the dynamics of systems, 90a:00011** *and* **Problems in the analytic and qualitative theory of differential equations, 90c:00008**
(Shevlyakov, Yu. A.) *see* **Dynamical systems, 90d:00019**
(Shutyaev, V. P.) *see* **Conjugate equations and perturbation algorithms, 90h:00002**
(Silbermann, Bernd) *see* **Seminar: Analysis, 90d:00032** *and* **90m:00028**
(Skrypnik, I. V.) *see* **Functional and numerical methods in mathematical physics, 90k:00021**
(Sloane, N. J. A.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
(Smailov, E. S.) *see* **Current problems in the theory of functions and functional analysis, 90h:00003**
(Spagnolo, Sergio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**
(Stepanov, N. V.) *see* **Differential geometry of families of lines and surfaces, 90m:00019**
(Taĭkov, L. V.) *see* **Application of functional analysis in approximation theory, 90m:00015**
(Tikhonov, A. N.) *see* **Mathematical modeling, 90a:00006** *and* **Current problems in applied mathematics, 90d:00016**
(Tildesley, D. J.) *see* **Fractals in the natural sciences, 90m:00020**
(Tonoyan, R. N.) *see* **Applied mathematics, 90a:00002**
(Treĭmanis, M.) *see* **Algebra and discrete mathematics: applied problems in information science, 90m:00013**
(Tsalyuk, Z. B.) *see* **Integral operators and equations, 90a:00005**
(Turaev, Kh. T.) *see* **Computational algorithms in applied mathematics, 90c:00004** *and* **Computational methods in applied mathematics, 90d:00014**
(Val′kov, K. I.) *see* **Geometric models and algorithms, 90c:00007**
(Videnskiĭ, V. S.) *see* **Approximation of functions by special classes of operators, 90d:00009**
(Volkodavov, V. F.) *see* **Boundary value problems and the structure of solutions of differential equations, 90i:00001**
(Vragov, V. N.) *see* **Nonclassical equations in mathematical physics, 90a:00007**
(Wang, Yuan^1) *see* **Advances in science of China. Mathematics, 90g:00005** *and* **90j:00005**
(Yablonskiĭ, S. V.) *see* **Mathematical problems in cybernetics, 90h:00008**
(Yarmukhamedov, Sh.) *see* **Problems in mathematical analysis and its applications, 90d:00030**
(Zassenhaus, H.) *see* **Representation theory, group rings, and coding theory, 90a:00012**
(Zeel′, È. O.) *see* **Approximation of functions by special classes of operators, 90d:00009**
(Zehnder, Eduard) *see* **Analysis, et cetera, 90m:00014**
(Zhitomirskiĭ, G. I.) *see* **Theory of semigroups and its applications, 90d:00034**
(Zhou, Guang Zhao) *see* **Advances in science of China. Physics, 90d:00007**
(Zhu, Hong Yuan) *see* **Advances in science of China. Physics, 90d:00007**
(Zubov, V. I.) *see* **Dynamics of control systems, 90k:00019**

Items listed otherwise than by author

Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
Advances in science of China. Mathematics ★ Advances in science of China. Mathematics. Vol. 2. **90g:00005**
— ★ Advances in science of China. Mathematics. Vol. 1. **90j:00005**
Advances in science of China. Physics ★ Advances in science of China. Physics. Vol. 2. **90d:00007**
Algebra and discrete mathematics: applied problems in information science ★ Алгебра и дискретная математика: прикладные вопросы информатики. (Russian) [Algebra and discrete mathematics: applied problems in information science] **90m:00013**
Algebra. Topology. Geometry ★ Алгебра. Топология. Геометрия. Том 27. (Russian) [Algebra. Topology. Geometry. Vol. 27] **90k:00015**
— ★ Алгебра. Топология. Геометрия. Том 28. (Russian) [Algebra. Topology. Geometry. Vol. 28] **90m:00012**
Algorithmic and numerical problems in algebra and number theory ★ Алгоритмические и вычислительные вопросы алгебры и теории чисел. (Russian) [Algorithmic and numerical problems in algebra and number theory] **90k:00016**
All-Union Conference:
  Current Problems in Mathematical Physics and Numerical Mathematics ★ Математическое моделирование. (Russian) [Mathematical modeling] **90a:00006**
Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Analysis and partial differential equations ★ Analysis and partial differential equations. **90j:00006**
Analysis, et cetera ★ Analysis, et cetera. **90m:00014**
Application of functional analysis in approximation theory ★ Применение функционального анализа в теории приближений. (Russian) [Application of functional analysis in approximation theory] **90m:00015**
Application of new methods of analysis to differential equations ★ Применение новых методов анализа к дифференциальным уравнениям. (Russian) [Application of new methods of analysis to differential equations] **90m:00016**

Application program packages and numerical methods ★ Пакеты прикладных программ и численные методы. (Russian) [Application program packages and numerical methods] **90j:00007**
Applied mathematics ★ Прикладная математика. Вып. 5. (Russian) [Applied mathematics. No. 5] **90a:00002**
Applied problems in functional analysis ★ Прикладные вопросы функционального анализа. (Russian) [Applied problems in functional analysis] **90d:00008**
Approximation of functions by special classes of operators ★ Приближение функций специальными классами операторов. (Russian) [Approximation of functions by special classes of operators] **90d:00009**
Asymptotic methods in analysis ★ Asymptotische Methoden in der Analysis. (Russian) [Asymptotic methods in analysis] **90d:00010**
Asymptotic methods in problems of mathematical physics ★ Асимптотические методы в задачах математической физики. (Russian) [Asymptotic methods in problems of mathematical physics] **90d:00011**
Asymptotische Methoden in der Analysis ★ Asymptotische Methoden in der Analysis. (Russian) [Asymptotic methods in analysis] **90d:00010**
Beiträge zur theoretischen Elektrotechnik ★ Beiträge zur theoretischen Elektrotechnik. 1. (Russian) [Contributions to the theory of electrical engineering. 1] **90j:00009**
Berlin ★ Seminar Analysis. **90d:00032**
— ★ Seminar Analysis. **90m:00028**
Birthday:
  Karlin, Samuel ★ Probability, statistics, and mathematics. **90j:00012**
Boundary value problems ★ Краевые задачи. (Russian) [Boundary value problems] **90d:00012**
— ★ Краевые задачи. (Russian) [Boundary value problems] **90k:00017**
Boundary value problems and the structure of solutions of differential equations ★ Краевые задачи и структура решений дифференциальных уравнений. (Russian) [Boundary value problems and the structure of solutions of differential equations] **90i:00001**
Boundary value problems for differential equations ★ Граничные задачи для дифференциальных уравнений. (Russian) [Boundary value problems for differential equations] **90d:00013**
Clermont-Ferrand ★ Séminaire d'Analyse. 1986–1987. (French) [Seminar on Analysis. 1986–1987] **90a:00013**
Cluj-Napoca ★ Seminar on Computer Science. **90a:00014**
— ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. **90b:00007**
— ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. **90b:00008**
— ★ Seminar on Computer Science. **90c:00010**
— ★ Seminar on Mathematical Analysis. **90m:00031**
Combinatorial-algebraic methods in applied mathematics ★ Комбинаторно-алгебраические методы в прикладной математике. (Russian) [Combinatorial-algebraic methods in applied mathematics] **90a:00003**
Computational algorithms in applied mathematics ★ Вычислительные алгоритмы прикладной математики. (Russian) [Computational algorithms in applied mathematics] **90c:00004**
Computational methods in applied mathematics ★ Вычислительные методы прикладной математики. (Russian) [Computational methods in applied mathematics] **90d:00014**
Conjugate equations and perturbation algorithms ★ Сопряженные уравнения и алгоритмы возмущений. (Russian) [Conjugate equations and perturbation algorithms] **90h:00002**
Constanţa ★ Workshop on Differential Equations. **90d:00035**
Constructive theory of functions and functional analysis ★ Конструктивная теория функций и функциональный анализ. Вып. VI. (Russian) [Constructive theory of functions and functional analysis. No. VI] **90j:00008**
Contemporary Mathematics ★ Representation theory, group rings, and coding theory. **90a:00012**
Contributions to the theory of electrical engineering ★ Beiträge zur theoretischen Elektrotechnik. 1. (Russian) [Contributions to the theory of electrical engineering. 1] **90j:00009**
Controllable dynamical systems and their applications ★ Управляемые динамические системы и их приложения. (Russian) [Controllable dynamical systems and their applications] **90d:00015**
Current mathematics in physical engineering problems ★ Современная математика в физико-технических задачах. (Russian) [Current mathematics in physical engineering problems] **90c:00005**
Current problems in applied mathematics ★ Актуальные вопросы прикладной математики. (Russian) [Current problems in applied mathematics] **90d:00016**
Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 36. (Russian) [Current problems in mathematics. Newest results. Vol. 36] **90m:00017**
Current problems in the theory of functions and functional analysis ★ Современные вопросы теории функции и функционального анализа. (Russian) [Current problems in the theory of functions and functional analysis] **90h:00003**
Differential equations and their applications ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications] **90b:00006**
— ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications] **90m:00018**
Differential equations and their applications in physics ★ Дифференциальные уравнения и их приложения в физике. (Russian) [Differential equations and their applications in physics] **90d:00017**
Differential equations with a parameter ★ Дифференциальные уравнения с параметром. (Russian) [Differential equations with a parameter] **90k:00018**
Differential geometry of families of lines and surfaces ★ Дифференциальная геометрия семейств линий и поверхностей. (Russian) [Differential geometry of families of lines and surfaces] **90m:00019**
Dynamic processes and their stability ★ Динамические процессы и их устойчивость. (Russian) [Dynamic processes and their stability] **90d:00018**
Dynamical systems ★ Динамические системы. Вып. 8. (Russian) [Dynamical systems. No. 8] **90d:00019**
Dynamics of control systems ★ Динамика систем управления. (Russian) [Dynamics of control systems] **90k:00019**
Essays:
  History of natural sciences and geography ★ Aufsätze zur Geschichte der Naturwissenschaften und Geographie. (German) [Essays on the history of natural sciences and geography] **90c:00006**
Evolution equations and their applications ★ Hatten hōteishiki to sono oyō. [Evolution equations and their applications] **90h:00004**
Fractals in the natural sciences ★ Fractals in the natural sciences. **90m:00020**
Functional analysis and mathematical physics ★ Функциональный анализ и математическая физика. (Russian) [Functional analysis and mathematical physics] **90k:00020**
Functional analysis, theory of functions and their applications ★ Функциональный анализ, теория функций и их приложения. (Russian) [Functional analysis, theory of functions and their applications] **90a:00004**
Functional and numerical methods in mathematical physics ★ Функциональные и численные методы математической физики. (Russian) [Functional and numerical methods in mathematical physics] **90k:00021**
Functional methods in problems of mathematical physics ★ Функциональные методы в задачах математической физики. (Russian) [Functional methods in problems of mathematical physics] **90d:00020**
Geometric models and algorithms ★ Геометрические модели и алгоритмы. (Russian) [Geometric models and algorithms] **90c:00007**
Geometric questions in the theory of functions and sets ★ Геометрические вопросы теории функций и множеств. (Russian) [Geometric questions in the theory of functions and sets] **90h:00005**
Harmonic analysis: Working Group on Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Integral operators and equations ★ Интегральные операторы и уравнения. (Russian) [Integral operators and equations] **90a:00005**
Investigations in applied mathematics ★ Investigations in applied mathematics. No. 12. **90d:00021**
— ★ Investigations in applied mathematics. No. 9. **90f:00002**
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Bibliography:
  Leite Lopes, José ★ Leite Lopes Festschrift. **90d:81002**
Biography:
  Leite Lopes, José ★ Leite Lopes Festschrift. **90d:81002**
Colloquium:
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  Analysis Seminar ★ Proceedings of the Third Analysis Seminar. **90j:00022**

  Annual Scientific Meeting of the GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90a:00025**

  Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. **90h:00020**

  Conference on Computing Methods in Applied Sciences and Engineering ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. **90m:00041**

  Conference on Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. **90i:00004**

  Conference on Nonlinear Mechanics ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**

  Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **90k:00030**

- **Proceedings:** (*cont'd.*)
  - **Congress on Computational and Applied Mathematics** ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. **90m:00042**
  - **Mathematical Meeting in Honor of A. Dou** ★ Actas de la Reunión Matemática en Honor de A. Dou. (Spanish) [Proceedings of the Mathematical Meeting in Honor of A. Dou] **90m:00043**
  - **School on Geometry and Physics** ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
  - **School on Measure Theory** ★ Proceedings of the First Winter School on Measure Theory. **90a:00026**
  - **Session of the Department of Mathematics** ★ Proceedings of the Annual Scientific Session of the Department of Mathematics. (French) **90m:00044**
  - **Symposium of Mathematics and its Applications** ★ Proceedings of the Second Symposium of Mathematics and its Applications. **90d:00043**
- **Quantum probability and applications** ★ Quantum probability and applications. IV. **90f:00007**
- **Reports:**
  - **Conference on Mathematics** ★ Guzārish-i panzdahumīn kunfirāns-i riyāẓī-yi kishvar. [Report on the Fifteenth National Conference on Mathematics] **90m:00045**
  - **Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions** ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 1] **90k:00031a**
  - — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] **90k:00031b**
  - — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] **90k:00031c**
- **Role of experience in science** ★ The role of experience in science. **90c:00011**
- **Rome** ★ Quantum probability and applications. IV. **90f:00007**
- — ★ Symbolic and algebraic computation. **90i:00005**
- **Saint Jean de Monts** ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **90k:00030**
- **Sankt Wolfgang** ★ Inverse and ill-posed problems. **90f:00004**
- **Saratov** ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
- — ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
- **School:**
  - **Abstract Analysis** ★ 17th Winter School on Abstract Analysis. **90m:00046**
  - **Function Spaces, Differential Operators and Nonlinear Analysis** ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
  - **Geometry and Physics** ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
  - **Measure Theory** ★ Proceedings of the First Winter School on Measure Theory. **90a:00026**
  - **Number Theory and Physics** ★ Number theory and physics. **90m:00039**
  - **Schrödinger Operators** ★ Schrödinger operators. **90j:00024**
  - **Theory of Functions and Approximations** ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
  - — ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
- **Schrödinger operators** ★ Schrödinger operators. **90j:00024**
- **Segovia** ★ Second International Symposium (Segovia, 1986): "On Orthogonal Polynomials and their Applications". **90d:00045**
- **Semigroup theory and applications** ★ Semigroup theory and applications. **90b:00010**
- **Seminar:**
  - **Analysis** ★ Proceedings of the Third Analysis Seminar. **90j:00022**
  - **Applied Mathematics** ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
  - **Computational Aspects of VLSI Design with an Emphasis on Semiconductor Device Simulation** ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
  - **Inverse and Ill-posed Problems** ★ Inverse and ill-posed problems. **90f:00004**
  - **Mathematical Methods in Software Design** ★ Mathematische Verfahrenstechnik. (German) [Mathematical methods in software design] **90b:00009**
  - **Partial Differential Equations and Continuum Models of Phase Transitions** ★ PDEs and continuum models of phase transition. **90h:00019**
  - **Vekua Institute of Applied Mathematics** ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 1] **90k:00031a**
  - — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] **90k:00031b**
  - — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] **90k:00031c**
- **Sequences** ★ Sequences. **90m:00047**
- **Session:**
  - **Department of Mathematics** ★ Proceedings of the Annual Scientific Session of the Department of Mathematics. (French) **90m:00044**
  - **Nonlinear Functional Analysis** ★ Nonlinear functional analysis. **90f:00005**
- **Shanghai** ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
- **Shiraz** ★ Guzārish-i panzdahumīn kunfirāns-i riyāẓī-yi kishvar. [Report on the Fifteenth National Conference on Mathematics] **90m:00045**
- — ★ Proceedings of the Third Analysis Seminar. **90j:00022**
- **Sodankylä** ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
- **Solitons in physics, mathematics, and nonlinear optics** ★ Solitons in physics, mathematics, and nonlinear optics. **90m:00048**
- **Solution of superlarge problems in computational mechanics** ★ Solution of superlarge problems in computational mechanics. **90m:00049**
- **Sønderborg** ★ Schrödinger operators. **90j:00024**
- **Special Year:**
  - **Quantum Probability** ★ Quantum probability and applications. IV. **90f:00007**
- **Srní** ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
- — ★ 17th Winter School on Abstract Analysis. **90m:00046**
- **Symbolic and algebraic computation** ★ Symbolic and algebraic computation. **90i:00005**
- **Symposium:**
  - **Bohr, Harald** ★ The Harald Bohr Centenary. **90h:00013**
  - **Complex Geometry and Analysis** ★ Complex geometry and analysis. **90m:00034**
  - **Fractals in Physics** ★ Фракталы в физике. (Russian) [Fractals in physics] **90j:00019**
  - **Mathematics** ★ 2° Simposio Chileno de Matemática. I. (Spanish) [2nd Chilean Symposium on Mathematics. I] **90d:00044**
  - **Mathematics and Computers** ★ Symposium on Mathematics and Computers. **90k:00032**
  - **Mathematics and its Applications** ★ Proceedings of the Second Symposium of Mathematics and its Applications. **90d:00043**
  - **Nonlinear Semigroups, Partial Differential Equations and Attractors** ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
  - **Optimization, Design of Experiments and Graph Theory** ★ Optimization, design of experiments and graph theory. **90a:00024**
  - **Orthogonal Polynomials and their Applications** ★ Second International Symposium (Segovia, 1986): "On Orthogonal Polynomials and their Applications". **90d:00045**
  - **Solution of Superlarge Problems in Computational Mechanics** ★ Solution of superlarge problems in computational mechanics. **90m:00049**
  - **Symbolic and Algebraic Computation** ★ Symbolic and algebraic computation. **90i:00005**
  - **Systems Analysis and Simulation** ★ Systems analysis and simulation. I. **90j:00025a**
  - — ★ Systems analysis and simulation. II. **90j:00025b**
  - **Topological and Geometrical Methods in Field Theory** ★ Topological and geometrical methods in field theory. **90h:00021**
- **Systems analysis and simulation** ★ Systems analysis and simulation. I. **90j:00025a**
- — ★ Systems analysis and simulation. II. **90j:00025b**
- **Taejŏn** ★ Analysis and geometry 1989. **90m:00033**
- **Talca** ★ 2° Simposio Chileno de Matemática. I. (Spanish) [2nd Chilean Symposium on Mathematics. I] **90d:00044**
- **Tara** ★ VI Conference on Applied Mathematics. **90d:00037**
- **Tbilisi** ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 1. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 1] **90k:00031a**
- — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 2. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 2] **90k:00031b**
- — ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 3, вып. 3. (Russian) [Reports of the extended sessions of a seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 3, no. 3] **90k:00031c**
- **Theory and numerical methods for solving boundary value problems of differential equations** ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
- **Theory of functions** ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
- **Theory of functions and approximations** ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
- — ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
- **Timişoara** ★ Proceedings of the Second Symposium of Mathematics and its Applications. **90d:00043**
- **Topological and geometrical methods in field theory** ★ Topological and geometrical methods in field theory. **90h:00021**
- **Transactions:**
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- **Trieste** ★ Фракталы в физике. (Russian) [Fractals in physics] **90j:00019**
- — ★ Semigroup theory and applications. **90b:00010**
- **Vallabhvidyanagar** ★ Fiftieth Conference of the Indian Mathematical Society. (Not in MR)
- **Vence** ★ Fractals in physics. **90d:00038**
- **Versailles** ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. **90m:00041**
- **Vienna** ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90a:00025**
- **Volterra integrodifferential equations in Banach spaces and applications** ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
- **Vorau** ★ Control and estimation of distributed parameter systems. **90h:00012**
- **Washington, DC** ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
- **West Point, NY** ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. **90m:00050**
- **Wilrijk** ★ Nonlinear numerical methods and rational approximation. **90a:00023**
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  - **Analysis and Geometry** ★ Analysis and geometry 1989. **90m:00033**
  - **Functional Analysis and Optimization** ★ Workshop/Miniconference on Functional Analysis and Optimization. **90c:00012**
  - **Nonlinear Evolution Equations and Dynamical Systems** ★ Nonlinear evolutions. **90k:00029**

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  Numerical Analysis and its Applications ★ Computational mathematics. II. **90j:65004**
  Numerical Integration ★ Numerical integration. III. **90e:65003**
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— ★ Singularities. **90a:32002**
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— ★ Measure and measurable dynamics. **90d:28001**
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00A12 Translation volumes, reprintings, etc. [see also 01A75]

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(Newton, Dan) *see* **Analysis, 90j:00027**
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  Mathematics, Russian-English *see* **Glushko, M. M., 90b:00012**
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Kokoska, Stephen (*with* Nevison, Christopher) ★ Statistical tables and formulae. **90c:62107**
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00A22 Formularies

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00A25 Methodology and philosophy of mathematics

Abramowich, John Syntactic methods for recursive equations and applications to differential equations. **90h:00025**
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Atiyah, Michael The impact of physics on geometry. **90d:00055**
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  Workshop on the Philosophy and Methodological Problems of Mathematics ★ Determinanten der Mathematikentwicklung—erkenntnistheoretische, wissenschaftstheoretische und historische Aspekte. (German) [Determinants of mathematical development—epistemological, science-theoretical and historical aspects] **90k:00046**
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Objectivité dans les différentes sciences ★ L'objectivité dans les différentes sciences. (French) [Objectivity in the various sciences] **90m:00059**
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(Brandt, Horst D.) *see* **Lambert, Johann Heinrich, 90g:01073**
(Braun, Thomas) *see* **Rosenthal-Schneider, Ilse, 90g:01037**
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Mânzatu, E. Fonctionnelles différentiables sur des espaces localement convexes. Applications dans la théorie générale des systèmes. (Romanian summary) [Functionals differentiable on locally convex spaces. Applications in general systems theory] **90k:46096**
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Mikhlin, Yu. V. *see* **Manevich, L. I.; et al., 90i:34003**
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Pargetter, Robert *see* **Bigelow, John, 90m:00053**
Paul, Siegfried Zur heuristisch-methodischen Bedeutung mathematisierter Naturwissenschaften für die Mathematisierung von Gesellschaftswissenschaften. [On the heuristic-methodical importance of mathematized natural sciences for the mathematization of the social sciences] (*see* **90k:00046**)
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(Sneddon, Ian N.) *see* **Dautray, Robert, 90k:00004**
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Tolkachev, E. A. *see* **Berezin, A. V.; et al., 90h:81001**
(Tolmachëv, V. V.) *see* **Harris, Christopher J., 90g:93070**
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(von Weizsäcker, Ernst Ulrich) *see* **Open systems, 90a:01066**
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Zauderer, Erich ★ Partial differential equations of applied mathematics. **90k:35004**
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**
(Ziesche, Paul) *see* **Berestetskiĭ, V. B.; et al., 90b:00001**

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Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
Birthday:
  Mandelbrot, Benoit B. ★ Fractals in physics. **90d:00038**
Boundary element reference book ★ The boundary element reference book. **90a:65002**
Conference:
  Applied Mathematics ★ VI Conference on Applied Mathematics. **90d:00037**
  Computing Methods in Applied Sciences and Engineering ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. **90m:00041**
  Fractals in Physics ★ Fractals in physics. **90d:00038**
Fractals in physics ★ Фракталы в физике. (Russian) [Fractals in physics] **90j:00019**
— ★ Fractals in physics. **90d:00038**
Fractals in the natural sciences ★ Fractals in the natural sciences. **90m:00020**
Handbook:
  Boundary elements ★ The boundary element reference book. **90a:65002**
Inverse problems: an interdisciplinary study ★ Inverse problems: an interdisciplinary study. **90d:00040**
Meeting:
  GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90a:00025**
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Montpellier ★ Inverse problems: an interdisciplinary study. **90d:00040**
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Obituary:
  Vaughan, Rodney J. *see* **Vaughan, Rodney, 90f:90056**
Offene Systeme ★ Offene Systeme. I. (German) [Open systems. I] **90a:01066**
Open systems ★ Offene Systeme. I. (German) [Open systems. I] **90a:01066**
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  Conference on Computing Methods in Applied Sciences and Engineering ★ Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering. **90m:00041**
Special Issue:
  Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
Symposium:
  Fractals in Physics ★ Фракталы в физике. (Russian) [Fractals in physics] **90j:00019**
Tara ★ VI Conference on Applied Mathematics. **90d:00037**
Trieste ★ Фракталы в физике. (Russian) [Fractals in physics] **90j:00019**
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00A71 Theory of mathematical modeling

Cong, Cui Ying A preliminary discussion on mathematization and mathematical models. (Chinese) **90d:00061**
(Kim, Myung-Hwan[1]) *see* **Algebra and topology, 90f:00009**
(Ko, K. H.) *see* **Algebra and topology, 90f:00009**
Nour Eldin, H. A. *see* **Stelter, R.**, (**90m:93003**)
Pester, A. Mathematik—mathematische Modellierung—Sprache. [Mathematics—mathematical modelling—language] (*see* **90k:00046**)
Pivovarov, V. G. Mathematical models in natural science. (Russian) (*see* **90d:00023**)
Pratt, M. J. Representation and communication in geometric modelling. **90k:00050**
Pyt'ev, Yu. P. Reliability of the interpretation of an experiment based on an approximate model. (Russian) **90m:00061**
Rabitz, Herschel Simplifying features of strongly coupled dynamical systems: scaling and self similarity relations through sensitivity analysis. (*see* **90d:65009**)
Stelter, R. (*with* Nour Eldin, H. A.) Application of singular perturbation for modelling and model reduction in engineering problems. (*see* **90m:93003**)

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Arlinghaus, Sandra Lach ★ Essays on mathematical geography. **90i:92002**
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Arsenin, V. Ya. (*with* Timonov, A. A.) Some aspects of mathematical modeling of x-ray computer tomographs. (Russian) **90f:92005**
Bohl, Erich ★ Mathematische Grundlagen für die Modellierung biologischer Vorgänge. (German) [Mathematical foundations for the modeling of biological processes] **90k:92002**
Brunner, V. *see* **Mazzola, G.; et al., 90e:92104**
Bryushinkin, V. N. ★ Логика, мышление, информация. (Russian) [Logic, thought, information] **90c:03002**
Casti, John L. ★ Alternate realities. **90a:92002**
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Conrad, Michael Physics and biology: towards a unified model.
Dahan Dalmédico, Amy La notion de pression: de la métaphysique aux diverses mathématisations. Causalité et statut des hypothèses. (English summary) [The notion of pressure: from metaphysics to the various mathematical formulations. Causality and status of the hypotheses] **90m:01020**
Danilov, V. G. *see* **Maslov, V. P.; et al., 90j:76093**
Delaney, William (*with* Vaccari, Erminia) ★ Dynamic models and discrete event simulation. **90j:93001**
Dewynne, J. (*with* Ockendon, J. R.; Wilmott, P.) On a mathematical model for fiber tapering. **90e:35107**
Dyshin, O. A. Asymptotic properties of noise-immunity for criteria of model accuracy. **90m:93073**
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Ermentrout, George Bard *see* **Edelstein-Keshet, Leah, 90m:92017**
Fowler, A. C. Secondary frost heave in freezing soils. **90k:86005**
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Kapur, J. N. ★ Fascinating world of mathematical sciences. Vol. I. **90m:00008a**
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Kaufmann, Arnold (*with* Gupta, Madan M.) ★ Fuzzy mathematical models in engineering and management science. **90b:90045**
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Li, Ji Bin (*with* Chen, Lan Sun) ★ Shengming yu shuxue. (Chinese) [Life and mathematics] **90b:92002**
Lü, Bi Hu *see* **Xu, Zai Chao**, (Not in MR)
(Madzharova, Yana) *see* **Nirenberg, L., 90e:58002**
Martín Triana, Leoncio (*with* Morales Aguilera, Nilo) Error theory in mathematical modelling. (Spanish. English summary) **90g:65062**
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Mazzola, G. (*with* Wieser, H.-G.; Brunner, V.; Muzzulini, D.) A symmetry-oriented mathematical model of classical counterpoint and related neurophysiological investigations by depth EEG. **90e:92104**
McClellan, James H. Parametric signal modeling. (*see* **90h:94004**)
Meirovitch, L. *see* **Norris, M. A.**, (Not in MR)
(Moiseev, N. N.) *see* **Mathematical modeling, 90m:00021**
Morales Aguilera, Nilo *see* **Martín Triana, Leoncio, 90g:65062**
Murray, James D. ★ Mathematical biology. **90g:92001**
Muzzulini, D. *see* **Mazzola, G.; et al., 90e:92104**
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Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) **90e:58002**
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Proskurov, V. S. Construction of information models for complex planning systems. **90a:93006**
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Thom, René ★ Structural stability and morphogenesis. **90m:58191**
Thompson, James R. ★ Empirical model building. **90e:90001**
Timonov, A. A. *see* **Arsenin, V. Ya., 90f:92005**
Vaccari, Erminia *see* **Delaney, William, 90j:93001**
Vedenov, A. A. ★ Моделирование элементов мышления. (Russian) [Modeling the elements of thought] **90e:92003**
(Waddington, C. H.) *see* **Thom, René, 90m:58191**
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Wilmott, P. *see* **Dewynne, J.; et al., 90e:35107**
Xu, Zai Chao (*with* Lü, Bi Hu) A frequency-domain modelling method for a class of nonlinear systems—an application of Volterra series. (Chinese. English summary) (Not in MR)
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00A73 Dimensional analysis

Deng, Ke Jia The problem of the number of independent dimensionless parameters in the theory of similarity. (Chinese. English summary) **90m:00062**
Makeechev, V. A. Development of dimensional analysis and of its applications. (Russian. English summary) **90h:00030**
Martínez, E. C. Hidden time-scales in nonlinear systems. **90g:00027**
Paul, Siegfried Mathematisierung und Wahrheit. [Mathematization and truth] **90c:00018**
Staicu, C. I. Le grand théorème de Fermat, un problème d'analyse dimensionelle générale. (Romanian summary) [Fermat's great theorem, a problem of general dimensional analysis] **90c:00019**

00A99 Miscellaneous topics

Egorova, L. I. *see* **Gorshkova, L. S., 90m:00063**
Gorshkova, L. S. (*with* Egorova, L. I.) Formulation of students' scientific world view in the process of teaching geometry. (Russian) **90m:00063**
Kister, Jane E. From published paper to MR review: how does it happen? (Not in MR)
Woolf, William B. The *Mathematical Reviews* database: the power of modern technology. (Not in MR)

01–XX History and biography [see also the classification number –03 in the other sections]

01–00 Handbooks, dictionaries, and other reference works

Gupta, Radha Charan A bibliography of selected books in history of mathematics. (Not in MR)
(Neu, John A.) *see* **Bibliography: History of science and its cultural influences, 90e:01001** *and* **90e:01002**

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Bibliography:

History of science and its cultural influences One hundred twelfth critical bibliography of the history of science and its cultural influences. **90e:01001**

— One hundred thirteenth critical bibliography of the history of science and its cultural influences. **90e:01002**

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(Hamel, Jürgen) *see* **Central catalogue of old astronomical printed works in the libraries of the GDR (up to 1700), 90h:01029**

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Bibliography:

Astronomical printed works in the libraries of the GDR (up to 1700) ★ Zentralkatalog alter astronomischer Drucke in den Bibliotheken der DDR (bis 1700). Teil 2. (German) [Central catalogue of old astronomical printed works in the libraries of the GDR (up to 1700). Part 2] **90h:01029**

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01-01 Elementary exposition; textbooks

Boyer, Carl B. ★ A history of mathematics. **90f:01001**

(Merzbach, Uta C.) *see* **Boyer, Carl B., 90f:01001**

Wußing, H. ★ Vorlesungen zur Geschichte der Mathematik. (German) [Lectures on the history of mathematics] **90g:01001**

01-02 Advanced exposition (research surveys, monographs, etc.)

Hailperin, Theodore The development of probability logic from Leibniz to MacColl. **90a:01001**

01-06 Proceedings, conferences, etc.

(Crupi, Giovanni) *see* **Ground and space investigations of the Halley comet. 1985–1986, 90h:01001**

(Mammano, A.) *see* **Ground and space investigations of the Halley comet. 1985–1986, 90h:01001**

(McCleary, John) *see* **History of modern mathematics, 90j:01001** *and* **90j:01002**

(Rowe, David E.) *see* **History of modern mathematics, 90j:01001** *and* **90j:01002**

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Conference:

The Approximative ★ L'à-peu-près. (French) [The approximative] **90a:01002**

Geometry in the pre-scientific period; ornament today ★ Geometry in the pre-scientific period; ornament today. **90m:01001**

Ground and space investigations of the Halley comet. 1985–1986 ★ Ground and space investigations of the Halley comet. 1985–1986. (Italian) **90h:01001**

History of modern mathematics ★ The history of modern mathematics. Vol. I. **90j:01001**

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Mathématisation 1780–1830 ★ La mathématisation 1780–1830. [Mathematization 1780–1830] **90f:01002**

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Proceedings:

Seminar on the History of Mathematics ★ Cahiers du Séminaire d'Histoire des Mathématiques. 11. (French) [Proceedings of the Seminar on the History of Mathematics. 11] **90j:01003**

Seminar:

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Symposium:

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Items with secondary classifications in 01-06

(Askey, Richard) *see* **Century of mathematics in America, 90a:01064; 90a:01065** *and* **90f:01044**

(Duren, P. L.) *see* **Century of mathematics in America, 90a:01064; 90a:01065** *and* **90f:01044**

(Edwards, Harold M.) *see* **Century of mathematics in America, 90f:01044**

(Fauvel, John) *see* **Let Newton be!, 90h:01020**

(Flood, Raymond) *see* **Let Newton be!, 90h:01020**

Heinekamp, Albert Zur Einführung. [Introduction] **90g:01013**

(Leibniz, Gottfried Wilhelm) *see* **Leibniz's logic, 90m:03006**

(Merzbach, Uta C.) *see* **Century of mathematics in America, 90a:01064; 90a:01065** *and* **90f:01044**

(Mugnai, Massimo) *see* **Leibniz's logic, 90m:03006**

(Newton, I.) *see* **Let Newton be!, 90h:01020**

(Shortland, Michael) *see* **Let Newton be!, 90h:01020**

(Wilson, Robin James) *see* **Let Newton be!, 90h:01020**

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Biography:

Newton, Isaac ★ Let Newton be! **90h:01020**

Century of mathematics in America ★ A century of mathematics in America. Part I. **90a:01064**

— ★ A century of mathematics in America. Part II. **90a:01065**

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01A05 General histories, source books

Barnard, George A. Twenty-five years in the foundations of statistics. **90d:01001**

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01A74 Other institutions and academies

(Archduke Johann) *see* **Kadletz-Schöffel, Hedwig, 90h:01022**

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01A75 Collected or selected works; reprintings or translations of classics

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  Markov, A. A. ★ Девятая Всесоюзная Конференция по Математической Логике. (Russian) [Ninth All-Union Conference on Mathematical Logic] **90j:03002**
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Bernstein, Mark Fatalism, tense, and changing the past. (Not in MR)
Bessonov, A. V. (*with* Petrov, V. V.) Meinong's theory of objects and the foundations of contemporary logic. (Russian) (*see* **90i:00002**)
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Blum, Alex A version of the Frege-Quine argument. **90e:03004**
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Clavelli, M. Free-construction principles in the De Giorgi-Forti frame-theory of the foundations of mathematics. (Italian. English summary) **90d:03010**

— (*with* De Giorgi, E.; Forti, M.; Tortorelli, V. M.) A self-reference oriented theory for the foundations of mathematics. **90f:03005**

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David, Marian A. Truth, eliminativism, and disquotationalism. (Not in MR)

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— *see also* **Weisberger, Andrea M.**, (Not in MR)

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Kirillov, A. A. Commentaries on S. Mac Lane's article "Mathematical logic is neither foundation nor philosophy" [Philos. Math. (2) **1** (1986), no. 1-2, 3–14; MR 87j:03008]. (Russian) (*see* **90i:00002**)

Koons, Robert Charles Doxastic paradoxes without self-reference. (*see* **90d:03009**)

Kroon, Frederick Circles and fixed points in description theories of reference. **90c:03004**

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Mycielski, Jan (*with* Pudlák, Pavel; Stern, Alan S.) A lattice of chapters of mathematics (interpretations between theorems [theories]). **90g:03009**
Pudlák, Pavel *see* **Mycielski, Jan; et al., 90g:03009**
Stern, Alan S. *see* **Mycielski, Jan; et al., 90g:03009**

03C10 Quantifier elimination and related topics

Feuerstein, Switgard Quantifier elimination for Stone algebras. **90d:03057**
Koepke, Peter On the elimination of Malitz quantifiers over Archimedian real closed fields. **90k:03029**
Pillay, A. An application of model theory to real and p-adic algebraic groups. **90m:03061**
Scowcroft, Philip A note on definable Skolem functions. **90a:03038**

Items with secondary classifications in 03C10

Arnon, Dennis S. (*with* Mignotte, Maurice) On mechanical quantifier elimination for elementary algebra and geometry. **90a:03010**
— (*with* Collins, George E.; McCallum, Scott) An adjacency algorithm for cylindrical algebraic decompositions of three-dimensional space. **90g:68048a**
— A cluster-based cylindrical algebraic decomposition algorithm. **90g:68048b**
Collins, George E. *see* **Arnon, Dennis S.; et al., 90g:68048a**
Grigor'ev, D. Yu. Complexity of deciding Tarski algebra. **90b:03054**
Ivanov, Aleksandr Anatol'evich Elementary extensions of recursively saturated models of Presburger arithmetic. (Russian) **90h:03021**
Luo, Li Bo On the computational complexity of the theory of abelian groups. **90a:03061**
Martínez, Néstor G. Elimination of quantifiers on Łukasiewicz logics. **90c:03014**
McCallum, Scott *see* **Arnon, Dennis S.; et al., 90g:68048a**
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Schulz, Klaus Ulrich Quantoren-Elimination bei Fastkörpern. [Quantifier elimination in nearfields] **90m:12014**
Taghva, Kazem Model completeness and direct power. **90k:03031**
Weaver, G. E. Classifying $\aleph_0$-categorical theories. **90g:03036**
Weispfenning, Volker Efficient decision procedures for locally finite theories. II. **90m:0301**
Wilkie, Alex J. On the theory of the real exponential field. **90i:03042**

03C13 Finite models

Compton, Kevin J. A logical approach to asymptotic combinatorics. II. Monadic second-order properties. **90c:03024**
Gilpin, Michael J. (*with* Shelton, Robert) More on predicates with periodic maximal lengt functions. **90e:03036**
Shelah, Saharon On decomposable sentences for finite models. (*see* **90a:03037**)
Shelton, Robert *see* **Gilpin, Michael J., 90e:03036**
Szwast, Wiesław On the generator problem. **90m:03062**

Items with secondary classifications in 03C13

Compton, Kevin J. The computational complexity of asymptotic problems. I. Partial orders. **90d:03073**
Goldfarb, Warren Random models and the Maslov class. **90f:03017**
Idziak, Paweł M. The decision problem for finite algebras from arithmetical varieties with equationally definable principal congruences. **90b:08013**
Tiuryn, Jerzy (*with* Urzyczyn, Paweł) Some relationships between logics of programs and complexity theory. **90a:68032**
Urzyczyn, Paweł *see* **Tiuryn, Jerzy, 90a:68032**

03C15 Denumerable models

Mayer, Laura L. Vaught's conjecture for o-minimal theories. **90a:03039**
Millar, Terry Finite extensions and the number of countable models. **90b:03045**

Items with secondary classifications in 03C15

Pierce, R. S. Countable Boolean algebras. (*see* **90k:06004**)

03C20 Ultraproducts and related constructions

Items with secondary classifications in 03C20

Beg, Ismat (*with* Popovici, Ioan Mircea) Ultraproduct and finite representability of Banach lattices. **90e:46016**
Foreman, Matthew (*with* Magidor, Menachem; Shelah, Saharon) Martin's maximum, saturated ideals and nonregular ultrafilters. II. **90a:03077**
Haydon, Richard (*with* Lin, Pei-Kee) Ultrapowers of rearrangement-invariant function spaces. I. **90e:46017**
Kadelburg, Z. (*with* Radenović, S.) Stability of ultraproducts of linear topological spaces. (Serbo-Croatian summary) **90b:46136**
Laflamme, Claude Forcing with filters and complete combinatorics. **90d:03104**
Lin, Pei-Kee *see* **Haydon, Richard, 90e:46017**
Magidor, Menachem *see* **Foreman, Matthew; et al., 90a:03077**
Popovici, Ioan Mircea *see* **Beg, Ismat, 90e:46016**
Radenović, S. *see* **Kadelburg, Z., 90b:46136**
Shelah, Saharon *see* **Foreman, Matthew; et al., 90a:03077**

03C25 Model-theoretic forcing

Burris, Stanley Decidable model companions. **90d:03058**
Manevitz, Larry M. (*with* Rowen, Louis Halle) Freedom via forcing: uniform construction of relatively free or generic structures. **90k:03030**
Rowen, Louis Halle *see* **Manevitz, Larry M., 90k:03030**
Shen, En Shao E.c. structures and e-companions. (Chinese) (Not in MR)

Items with secondary classifications in 03C25

Becker, Thomas (*with* Fuchs, László[1]; Shelah, Saharon) Whitehead modules over domains. **90a:13017**
Bergman, Clifford (*with* McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. **90f:08006**
Fuchs, László[1] *see* **Becker, Thomas; et al., 90a:13017**
McKenzie, R. N. *see* **Bergman, Clifford, 90f:08006**
Shelah, Saharon *see* **Becker, Thomas; et al., 90a:13017**
Suchenek, Marek A. Forcing versus closed world assumption. **90d:68067**

03C30 Other model constructions

Items with secondary classifications in 03C30

Hébert, Michel Sur les algèbres libres pour les classes axiomatiques. (English summary) [Free algebras for axiomatic classes] **90i:08010**

03C35 Categoricity and completeness of theories

Laskowski, Michael Chris Uncountable theories that are categorical in a higher power. **90d:03059**
Taghva, Kazem Model completeness and direct power. **90k:03031**
Toffalori, Carlo p-$\aleph_0$-categorical lattice-ordered structures. **90e:03037**
Weaver, G. E. Classifying $\aleph_0$-categorical theories. **90g:03036**

Items with secondary classifications in 03C35

Hodges, Wilfrid Categoricity and permutation groups. **90j:03064**
Hrushovski, Ehud Totally categorical structures. **90f:03064**
Macpherson, Dugald Absolutely ubiquitous structures and $\aleph_0$-categorical groups. **90a:03043**
McCarty, Charles Constructive validity is nonarithmetic. **90f:03095**
Morozov, A. S. A countably categorical decidable model without nontrivial recursive automorphisms. **90g:03041**
Pillay, A. A note on subgroups of the automorphism group of a saturated model, and regular types. **90g:03038**
Shelah, Saharon On almost categorical theories. **90m:03071**
Tanaka, Katsumi[2] Nonabelian groups of Morley rank 2. **90a:03051**

03C40 Interpolation and preservation theorems; definability

Delon, Françoise Définissabilité avec paramètres extérieurs dans $\mathbf{Q}_p$ et $\mathbf{R}$. (English summary) [Definability with external parameters in $\mathbf{Q}_p$ and $\mathbf{R}$] **90d:03060**
Hébert, Michel Preservation and interpolation through binary relations between theories. **90c:03025**

Items with secondary classifications in 03C40

Büchi, J. Richard (*with* Senger, Steven) Definability in the existential theory of concatenation and undecidable extensions of this theory. **90a:03069**
Duchhart, Dennis A unified approach to relative interpolation. **90e:03042**
Gropp, Ursula Coinductive formulas and a many-sorted interpolation theorem. **90d:03070**
Hébert, Michel (*with* McKenzie, R. N.; Weaver, G. E.) Two definability results in the equational context. **90b:08007**
Hodes, Harold Cardinality logics. II. Definability in languages based on 'exactly'. **90f:03015**
McKenzie, R. N. *see* **Hébert, Michel; et al., 90b:08007**
Renardel de Lavalette, Gerard R. Interpolation in fragments of intuitionistic propositional logic. **90j:03016**
Savioz, Christian ★ Extensions décidables et indécidables de la théorie monadique du deuxième ordre de deux fonctions de successeur. (French) [Decidable and undecidable extensions of the monadic second-order theory of two successor functions] **90k:03008**
Scowcroft, Philip A note on definable Skolem functions. **90a:03038**
Senger, Steven *see* **Büchi, J. Richard, 90a:03069**
Takano, Mitio Interpolation theorem in many-valued logics with designated values. **90f:03041**
Weaver, G. E. *see* **Hébert, Michel; et al., 90b:08007**
Willard, Ross A note on indecomposable lattices. **90b:06014**

03C45 Stability and related concepts

Baldwin, John T. Classification theory: 1985. **90k:03032**
— (*with* Steinhorn, Charles) Exercises on local weight. **90m:03063**
— Diverse classes. **90m:03065**
Baudisch, Andreas Classification and interpretation. **90c:03026**
Bouscaren, Elisabeth (*with* Hrushovski, Ehud) Classification theory, n-tuples of models and finite determinacy. **90m:03066**
— Dimensional order property and pairs of models. **90a:03040**
Delon, Françoise Idéaux et types sur les corps séparablement clos. (English summary) [Ideals and types over separably closed fields] **90m:03067**
Enochs, Kathryn (*with* Nesin, Ali) On 2-step solvable groups of finite Morley rank. **90m:03068**
Hart, Bradd An exposition of OTOP. **90m:03069**
Hrushovski, Ehud Locally modular regular types. **90m:03064**
— Unidimensional theories. An introduction to geometric stability theory. **90j:03061**
— Finitely based theories. **90a:03041**
— Kueker's conjecture for stable theories. **90b:03046**
— Totally categorical structures. **90f:03064**
— *see also* **Bouscaren, Elisabeth, 90m:03066**
Knight, Julia (*with* Lachlan, A. H.) Shrinking, stretching, and codes for homogeneous structures. **90k:03033**
Kucera, T. G. Totally transcendental theories of modules: decomposition of models and types. **90a:03042**
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Macpherson, Dugald Absolutely ubiquitous structures and $\aleph_0$-categorical groups. **90a:03043**
Marker, David Non Σ_n axiomatizable almost strongly minimal theories. **90g:03037**
Meĭrembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) **90a:03044**
Mustafin, T. G. The stability theory of polygons. (Russian) **90b:03047**
Nesin, Ali Groups of finite Morley rank with transitive group automorphisms. **90j:03062**
— *see also* **Enochs, Kathryn, 90m:03068**
Newelski, Ludomir Independence results for uncountable superstable theories. **90f:03065**
Pillay, A. Simple superstable theories. **90m:03070**
— A note on subgroups of the automorphism group of a saturated model, and regular types. **90g:03038**
Poizat, Bruno Petrovich Hrushovski's geometries. (*see* **90j:03004**)
Ryaskin, A. N. The number of models for complete theories of unars. (Russian) **90d:03061**
Shelah, Saharon Classification over a predicate. II. (*see* **90a:03037**)
— The spectrum problem. III. Universal theories. **90b:03048**
— On almost categorical theories. **90m:03071**
Steinhorn, Charles *see* **Baldwin, John T., 90m:03063**
Tanaka, Katsumi[2] Some local properties of ω-stable groups. **90a:03045**
Toffalori, Carlo Pairs of discrete o-minimal structures. **90g:03039**
Tsuboi, Akito On a property of ω-stable solvable groups. **90a:03046**
Vaughn, John B. A note on forking and normalization. **90d:03062**

Items with secondary classifications in 03C45

(Baldwin, John T.) *see* **Classification theory, 90h:03003** *and* **Stability in model theory, 90k:03002**
Baudisch, Andreas On the model theory of free metabelian groups of bounded exponent. **90j:03084**
Corredor, Luis Jaime Bad groups of finite Morley rank. **90k:20074**
Kudaibergenov, K. Zh. Elementary extensions, omitting types, and homogeneous models. **90e:03038**
Lachlan, A. H. Complete coinductive theories. I. **90i:03036**
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Marker, David Semialgebraic expansions of $\mathbf{C}$. **90k:03034**
Nesin, Ali Solvable groups of finite Morley rank. **90d:03068**
— Nonsolvable groups of Morley rank 3. **90k:20073**
Schmerl, James H. Partially ordered sets and the independence property. **90g:06006**
Tanaka, Katsumi[2] Nonabelian groups of Morley rank 2. **90a:03051**
Tsuboi, Akito Solvable and nilpotent structures. **90j:03066**
Zil'ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) **90a:03052**

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Chicago, IL ★ Classification theory. **90h:03003**
Classification theory ★ Classification theory. **90h:03003**

Lecture Notes in Mathematics ★ Classification theory. **90h:03003**
Meeting:
  Stability in Model Theory ★ Stability in model theory. II. **90k:03002**
Stability in model theory ★ Stability in model theory. II. **90k:03002**
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  Model Theory in Mathematical Logic ★ Classification theory. **90h:03003**

03C50 Models with special properties (saturated, rigid, etc.)

Anapolitanos, D. A. More on automorphisms of a finite order. (Greek summary) **90a:03047**
Droste, Manfred k-homogeneous relations and tournaments. **90m:03072**
Kudaibergenov, K. Zh. On a conjecture of Shelah. (Russian) **90d:03063**
— Elementary extensions, omitting types, and homogeneous models. **90e:03038**
— The number of homogeneous models of a complete theory. (Russian) **90f:03066**
Shelah, Saharon On countable theories with models—homogeneous models only. (*see* **90a:03037**)

Items with secondary classifications in 03C50

Aragane, Kenichi *see* **Tabata, Hiroyoshi**, (**90e:20002**)
Bekkali, Mohamed (*with* Bonnet, Robert) Rigid Boolean algebras. (*see* **90k:06003**)
Bonnet, Robert *see* **Bekkali, Mohamed**, (**90k:06003**)
Lachlan, A. H. Complete coinductive theories. I. **90i:03036**
Pillay, A. A note on subgroups of the automorphism group of a saturated model, and regular types. **90g:03038**
Roitman, Judy Superatomic Boolean algebras. (*see* **90k:06004**)
Rubin, Matatyahu *see* **Štěpánek, Petr**, (**90k:06003**)
Ryaskin, A. N. The number of models for complete theories of unars. (Russian) **90d:03061**
Štěpánek, Petr (*with* Rubin, Matatyahu) Homogeneous Boolean algebras. (*see* **90k:06003**)
Tabata, Hiroyoshi (*with* Aragane, Kenichi) Connections between the free structures and the structures provided by McNulty. (*see* **90e:20002**)

03C52 Properties of classes of models

Aragane, Kenichi Characterizations of the special amalgamation property for universal Horn classes. (*see* **90k:20003**)
Hébert, Michel Characterizations of axiomatic categories of models canonically isomorphic to (quasi-)varieties. **90d:03064**
Lachlan, A. H. Complete coinductive theories. I. **90i:03036**
Riedel, Herbert H. J. Existentially closed algebras and Boolean products. **90c:03027**

Items with secondary classifications in 03C52

Barr, Michael Models of Horn theories. **90k:18006**
Basarab, Şerban A. Some model theory for generalized trees. **90f:03068**
Rosický, J. Elementary categories. **90i:03043**

03C55 Set-theoretic model theory

Shelah, Saharon On the no(M) for M of singular power. (*see* **90a:03037**)

Items with secondary classifications in 03C55

Hodes, Harold Cardinality logics. I. Inclusions between languages based on 'exactly'. **90f:03014**
— Cardinality logics. II. Definability in languages based on 'exactly'. **90f:03015**
Kakuda, Yuzuru The role of a filter quantifier in set theory. **90m:03090**
Koepke, Peter On the elimination of Malitz quantifiers over Archimedian real closed fields. **90k:03029**
Lipparini, Paolo Consequences of compactness properties for abstract logics. (Italian summary) **90d:03071**
Meĭrembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) **90a:03044**
Pinus, A. G. Elementary equivalence of lattices of partitions. **90f:03070**

03C57 Recursion-theoretic model theory [see also 03D45]

Ash, Chris (*with* Knight, Julia; Manasse, Mark; Slaman, Theodore A.) Generic copies of countable structures. **90d:03065**
Denisov, A. S. Every decidable theory has a $\mathbf{0}'$-strongly constructive homogeneous model. (Russian) **90e:03039**
Dobritsa, V. P. Semilattices of computable indexings of classes of constructive models. (Russian) **90e:03040**
— Bounded limit reducibility of computable indexations of classes of constructive models. (Russian) **90g:03040**
— Classes with boundedly equivalent indexations. (Russian) **90i:03037**
— Polynomially limited reducibilities of computable indexations. (Russian) **90d:03066**
— Computability of some subclasses of a computable class of constructive models. **90i:03038**
Dzgoev, V. D. Constructive Boolean algebras. **90a:03048**
Goncharov, S. S. ★ Счетные булевы алгебры. (Russian) [Countable Boolean algebras] **90c:03028**
Knight, Julia *see* **Ash, Chris; et al., 90d:03065**
Manasse, Mark *see* **Ash, Chris; et al., 90d:03065**
Millar, Terry Homogeneous models and almost decidability. **90c:03029**
Morozov, A. S. A countably categorical decidable model without nontrivial recursive automorphisms. **90g:03041**
Remmel, J. B. Recursive Boolean algebras. (*see* **90k:06004**)
Slaman, Theodore A. *see* **Ash, Chris; et al., 90d:03065**
Ventsov, Yu. G. Reducibility of bounded complexity between constructivizations of models. (Russian) **90a:03049**
— Nonuniform autostability of models. (Russian) **90d:03067**
— Algorithmic dimension of models. **90j:03063**

Items with secondary classifications in 03C57

Dobritsa, V. P. Local classes and computable indexings. (Russian) **90b:03059**
Downey, R. G. (*with* Moses, Michael F.) On choice sets and strongly nontrivial self-embeddings of recursive linear orders. **90j:03085**
Drobotun, B. N. *see* **Goncharov, S. S., 90g:20049**
Dulatova, Z. A. Boolean algebras with a distinguished subalgebra and a distinguished automorphism. (Russian) **90f:03069**
Goncharov, S. S. (*with* Drobotun, B. N.) The algorithmic dimension of nilpotent groups. **90g:20049**
Morozov, A. S. Algebraic processes and countable models. (Russian) **90i:68035**
Moses, Michael F. *see* **Downey, R. G., 90j:03085**
Smith, Stuart T. Nonstandard definability. **90j:03117**

03C60 Model-theoretic algebra [see also 08C10]

Bürger, Gerd The $\mathscr{L}^{<\omega}$-theory of the class of Archimedian real closed fields. **90i:03039**
Cegielski, Patrick La théorie des corps réels-clos inductifs est une extension conservative d l'arithmétique de Peano. (English summary) [The theory of inductive real-closed fields i a conservative extension of Peano arithmetic] **90m:03073**
Delon, Françoise (*with* Lucas, François) Inclusions et produits de groupes abéliens ordonnés étudiés au premier ordre. [First-order study of inclusions and products of ordered abelian groups] **90f:03067**
Dickmann, M. A. The model theory of chain-closed fields. **90i:03040**
Hodges, Wilfrid Categoricity and permutation groups. **90j:03064**
Lucas, François *see* **Delon, Françoise, 90f:03067**
Macintyre, Angus A Lefschetz principle for integral closures. (*see* **90d:03005**)
Marker, David Semialgebraic expansions of $\mathbf{C}$. **90k:03034**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) **90a:03050**
— (*with* Remeslennikov, V. N.) ★ Допустимые множества в теории групп. (Russian) [Admissible sets in group theory] **90j:03065**
— (*with* Remeslennikov, V. N.) Model-theoretic problems in group theory. (Russian) **90h:03020**
Nesin, Ali Solvable groups of finite Morley rank. **90d:03068**
Point, Françoise (*with* Prest, Mike) Decidability for theories of modules. **90i:03041**
Prest, Mike *see* **Point, Françoise, 90i:03041**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 90a:03050; 90h:03020** *and* **90j:03065**
Tanaka, Katsumi[2] Nonabelian groups of Morley rank 2. **90a:03051**
Tsuboi, Akito Solvable and nilpotent structures. **90j:03066**
Wang, Shi Qiang Inductive rings and fields. **90j:03067**
Wilkie, Alex J. On the theory of the real exponential field. **90i:03042**
Zil'ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) **90a:03052**

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Barlotti, Adriano (*with* Strambach, Karl) The geometry of double loops. **90b:51019**
Baudisch, Andreas On the model theory of free metabelian groups of bounded exponent. **90j:03084**
— Classification and interpretation. **90c:03026**
Bélair, L. (*with* van den Dries, Lou; Macintyre, Angus) Elementary equivalence and codimension in p-adic fields. **90b:12003**
Bradley, Margarita A sufficient condition for a polynomial to be sum of $2m$th powers of rational functions. **90e:12006**
Cameron, Peter J. Groups of order-automorphisms of the rationals with prescribed scale type. **90h:20007**
Chatzidakis, Zoé An expansion of $\widetilde{\mathbf{F}}_p$. **90g:12013**
Corredor, Luis Jaime Bad groups of finite Morley rank. **90k:20074**
Delon, Françoise (*with* Rouani, Yamina) Indécidabilité de corps de séries formelles. (English summary) [Undecidability of fields of formal power series] **90d:12006**
— Idéaux et types sur les corps séparablement clos. (English summary) [Ideals and types ov separably closed fields] **90m:03067**
— Model theory of Henselian valued fields. **90j:12022**
— Définissabilité avec paramètres extérieurs dans $\mathbf{Q}_p$ et $\mathbf{R}$. (English summary) [Definabilit with external parameters in $\mathbf{Q}_p$ and $\mathbf{R}$] **90d:03060**
Dickmann, M. A. Algebra and model theory of chain fields: an overview. **90k:12008**
van den Dries, Lou *see* **Bélair, L.; et al., 90b:12003** *and* **Scowcroft, Philip, 90g:14010**
Drobotun, B. N. *see* **Goncharov, S. S., 90g:20049**
Droste, Manfred Normal subgroups and elementary theories of lattice-ordered groups. **90c:06021**
— (*with* Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. **90j:06029**
Dugas, Manfred (*with* Göbel, Rüdiger) Field extensions in L—a solution of C. U. Jensen $25 problem. **90g:12004**
Enochs, Kathryn (*with* Nesin, Ali) On 2-step solvable groups of finite Morley rank. **90m:03068**
Ershov, Yu. L. RRC-fields with small absolute Galois groups. **90f:03016**
Fuchs, László[1] Some applications of abelian group theory to modules. **90e:13009**
Fuchs, Peter Rudolf On pseudo-finite near-fields which have finite dimension over the centre. **90h:12014**
Giraudet, Michèle Cancellation and absorption of lexicographic powers of totally ordered abelian groups. **90e:06033**
— *see also* **Droste, Manfred, 90j:06029**
Göbel, Rüdiger *see* **Dugas, Manfred, 90g:12004**
Goncharov, S. S. (*with* Drobotun, B. N.) The algorithmic dimension of nilpotent groups. **90g:20049**
Gorbachuk, O. L. (*with* Mikhalovs'ka, N. M.) Axiomatization of classes of abelian group (Ukrainian. Russian summary) (Not in MR)

Grigor′ev, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) **90k:03007**

Haddad, Labib (*with* Sureau, Yves) Les cogroupes et les *D*-hypergroupes. (English summary) [Cogroups and *D*-hypergroups] **90a:20144**

Higman, Graham (*with* Scott, Elizabeth A.) ★ Existentially closed groups. **90a:20002**

— Some countably free groups. **90a:20072**

Jarden, Moshe The algebraic nature of the elementary theory of PRC fields. **90h:12004**

Koepke, Peter On the elimination of Malitz quantifiers over Archimedian real closed fields. **90k:03029**

Kremer, E. M. Completion of some classes of modules in the languages $L_{\infty\lambda}$. (Russian) **90a:16024**

Kucera, T. G. Totally transcendental theories of modules: decomposition of models and types. **90a:03042**

Künzi, Urs-Martin Corps multiplement pseudo-*p*-adiquement clos. (English summary) [Multiply pseudo-*p*-adically closed fields] **90k:12009**

Lipshitz, L. *p*-adic zeros of polynomials. **90d:11131**

Luo, Li Bo On the computational complexity of the theory of abelian groups. **90a:03061**

Macintyre, Angus *see* **Bélair, L.; et al., 90b:12003**

Manevitz, Larry M. (*with* Rowen, Louis Halle) Freedom via forcing: uniform construction of relatively free or generic structures. **90k:03030**

Meĭrembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) **90a:03044**

Mikhalovs′ka, N. M. *see* **Gorbachuk, O. L.**, (Not in MR)

Myasnikov, A. G. The structure of models and a criterion for the decidability of complete theories of finite-dimensional algebras. **90m:03074**

Nesin, Ali Nonsolvable groups of Morley rank 3. **90k:20073**

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— *see also* **Enochs, Kathryn, 90m:03068**

Oger, Francis Elementary equivalence of a polycyclic-by-finite group and its profinite completion. **90f:20003**

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03Dxx Recursion theory

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03D05 Automata and formal grammars in connection with logica questions [see also 18B20, 68Qxx]

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Banerji, Ranan B. Learning in the limit in a growing language. (*see* **90a:68005**)
van Dalen, D. *see* **Troelstra, A. S., 90e:03002a**
Golunkov, Yu. V. The degree of undecidability of the completeness problem in algebras of recursive functions. **90h:03028**
Hansen, Torben Amtoft (*with* Nikolajsen, Thomas; Träff, Jesper Larsson; Jones, Neil D.) Experiments with implementations of two theoretical constructions. (*see* **90k:68007**)
Ishizaka, Hiroki Model inference incorporating generalization. **90m:68108**
(Jantke, K. P.) *see* **Analogical and inductive inference, 90h:68004**
Johansen, Peter Inductive inference of ultimately periodic sequences. **90f:68149**
Jones, Neil D. *see* **Hansen, Torben Amtoft; et al.,** (**90k:68007**)
Kadin, Jim The polynomial time hierarchy collapses if the Boolean hierarchy collapses. **90a:03060**
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Pankrat′ev, N. A. Church's thesis from the point of view of the provability interpretation. **90d:03124**
Pokrass, David Some program anomalies and the parameter theorem. **90d:68011**
Ratajczyk, Z. A combinatorial analysis of functions provably recursive in $\mathrm{I}\Sigma_n$. **90d:03126**
Richter, M. M. (*with* Szabo, M. E.) Nonstandard methods in combinatorics and theoretical computer science. **90g:03068**
Sanchis, Luis E. ★ Reflexive structures. **90d:03002**
Szabo, M. E. *see* **Richter, M. M., 90g:03068**
Träff, Jesper Larsson *see* **Hansen, Torben Amtoft; et al.,** (**90k:68007**)
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Wainer, S. S. A plus-1 theorem for subsections. **90b:03061**
Wiedermann, Jiří On the computational efficiency of symmetric neural networks. **90m:68102**
Xu, Shu Run On the equivalence of some models of computation. **90g:03044**
Zeugmann, Thomas On the power of recursive optimizers. **90k:68146**

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Analogical and Inductive Inference ★ Analogical and inductive inference. **90h:68004**

03D25 Recursively enumerable sets and degrees

Ambos-Spies, K. (*with* Fejer, Peter A.) Degree theoretical splitting properties of recursively enumerable sets. **90c:03030**
— (*with* Soare, Robert I.) The recursively enumerable degrees have infinitely many one-types. **90k:03042**
— (*with* Lerman, M.) Lattice embeddings into the recursively enumerable degrees. II. **90i:03047**
Davis, Martin Teaching the incompleteness theorem. **90j:03078**
Downey, R. G. Recursively enumerable m- and tt-degrees. II. The distribution of singular degrees. **90k:03043**
— (*with* Slaman, Theodore A.) Completely mitotic r.e. degrees. **90f:03075**
— Recursively enumerable m- and tt-degrees. I. The quantity of m-degrees. **90j:03079**
Fejer, Peter A. *see* **Ambos-Spies, K., 90c:03030**
Jockusch, C. G., Jr. (*with* Lerman, M.; Soare, Robert I.; Solovay, R. M.) Recursively enumerable sets modulo iterated jumps and extensions of Arslanov's completeness criterion. **90j:03080**
Lachlan, A. H. (*with* Yi, X.) A remark on pseudojump operators. **90f:03076**
Lempp, Steffen (*with* Slaman, Theodore A.) A limit on relative genericity in the recursively enumerable sets. **90f:03077**
Lerman, M. (*with* Shore, Richard A.) Decidability and invariant classes for degree structures. **90c:03031**
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Matiyasevich, Yu. V. Diophantine complexity. (Russian. English summary) **90f:03078**
Shore, Richard A. *see* **Lerman, M., 90c:03031**
Slaman, Theodore A. *see* **Downey, R. G., 90f:03075** *and* **Lempp, Steffen, 90f:03077**
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Xi, Hong Wei Embedding the lattice ◊ in every interval of recursively enumerable degrees. (Chinese. English summary) **90e:03050**
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Chong, C. T. Recursively enumerable sets in models of Σ_2 collection. **90i:03067d**
— (*with* Downey, R. G.) Degrees bounding minimal degrees. **90c:03032**
— Maximal sets and fragments of Peano arithmetic. **90i:03067c**
Downey, R. G. (*with* Remmel, J. B.) Classification of degree classes associated with r.e. subspaces. **90d:03087**
— Intervals and sublattices of the r.e. weak truth table degrees. I. Density. **90e:03052**
— *see also* **Chong, C. T., 90c:03032**
Hájek, Petr (*with* Kučera, Antonín) On recursion theory in $\mathrm{I}\Sigma_1$. **90i:03067b**
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Remmel, J. B. *see* **Downey, R. G., 90d:03087**
Schwarz, Steven Index sets related to prompt simplicity. **90d:03090**
Slaman, Theodore A. (*with* Steel, John R.) Complementation in the Turing degrees. **90c:03034**
Steel, John R. *see* **Slaman, Theodore A., 90c:03034**
Ventsov, Yu. G. A family of recursively enumerable sets with finite classes of nonequivalent univalent computable numerations. (Russian) **90c:03038**
Yang, Dong Ping The existence of a minimal honest polynomial degree below **0′**. (Chinese. English summary) **90j:03075**

03D30 Degrees and reducibilities

Arslanov, M. M. The lattice of the degrees below **0′**. **90b:03057**
Ash, Chris (*with* Jockusch, C. G., Jr.; Knight, Julia) Jumps of orderings. **90j:03081**
Becker, Howard A characterization of jump operators. **90a:03067**
Chong, C. T. (*with* Downey, R. G.) Degrees bounding minimal degrees. **90c:03032**
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— A jump class of noncappable degrees. **90e:03051**
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— D.r.e. degrees and the nondiamond theorem. **90j:03082**
— *see also* **Chong, C. T., 90c:03032**
Fejer, Peter A. Embedding lattices with top preserved below non-GL_2 degrees. **90c:03033**
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Kučera, Antonín The class of degrees of unsolvability of functions that do not have a fixed point. (Russian. Armenian summary) **90e:03053**
Kurtz, Stuart A. (*with* Mahaney, Stephen R.; Royer, James S.) Collapsing degrees. **90a:03068**
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Slaman, Theodore A. (*with* Steel, John R.) Complementation in the Turing degrees. **90c:03034**
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Zou, Zhi Ming Some results on degrees of unsolvability. **90g:03046**

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Ambos-Spies, K. (*with* Fejer, Peter A.) Degree theoretical splitting properties of recursively enumerable sets. **90c:03030**
Chong, C. T. Recursively enumerable sets in models of Σ_2 collection. **90i:03067d**
— Maximal sets and fragments of Peano arithmetic. **90i:03067c**
Downey, R. G. Recursively enumerable m- and tt-degrees. II. The distribution of singular degrees. **90k:03043**
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Hájek, Petr (*with* Kučera, Antonín) On recursion theory in $I\Sigma_1$. **90i:03067b**
Ivanov, Lyubomir L. Abstract hierarchies and degrees. **90d:03093**
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— Correction to: "Strong reducibilities of enumerations and partial enumerated algebras". **90m:03078b**
Selivanov, V. L. Algorithmic complexity of algebraic systems. **90e:03055**
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03D35 Undecidability and degrees of sets of sentences

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Golunkov, Yu. V. The degree of undecidability of the completeness problem in algebras of recursive functions. **90h:03028**
Kim, Ki Hang (*with* Roush, Fred) Problems equivalent to rational Diophantine solvability. **90i:03048**
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Vazhenin, Yu. M. Algorithmic problems and hierarchies of first-order languages. (Russian) **90e:03054**
Weese, Martin Undecidable extensions of the theory of Boolean algebras. (*see* **90k:06004**)

Items with secondary classifications in 03D35

Agnes, Corrado (*with* Rasetti, M. G.) Chaos and undecidability: a group theoretical view. **90k:58123**
Baumslag, Gilbert (*with* Gildenhuys, Dion; Strebel, Ralph) Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. III. **90a:20066**
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Delon, Françoise (*with* Rouani, Yamina) Indécidabilité de corps de séries formelles. (English summary) [Undecidability of fields of formal power series] **90d:12006**
Dulatova, Z. A. Boolean algebras with a distinguished subalgebra and a distinguished automorphism. (Russian) **90f:03069**
Friedman, Harvey (*with* Seress, Ákos) Decidability in elementary analysis. I. **90e:03011**
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Idziak, Paweł M. Decision problem for relatively free Brouwerian semilattices. **90k:06011**
— Varieties with decidable finite algebras. I. Linearity. **90d:08006a**
— Varieties with decidable finite algebras. II. Permutability. **90d:08006b**
Kanter, Ido Undecidability principle and the uncertainty principle even for classical systems. **90k:81025**
Kim, Ki Hang (*with* Roush, Fred) Undecidability of module homomorphisms. **90f:03018**
Koppelberg, Sabine ★ Handbook of Boolean algebras. Vol. 1. **90k:06002**
(Monk, J. Donald) *see* **Koppelberg, Sabine, 90k:06002**
Myasnikov, A. G. The structure of models and a criterion for the decidability of complete theories of finite-dimensional algebras. **90m:03074**
Myers, Dale Lindenbaum-Tarski algebras. (*see* **90k:06004**)
Pheidas, Thanases Hilbert's tenth problem for a class of rings of algebraic integers. **90b:12002**
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Sagal, Paul Reflexive consistency proofs and Gödel's second theorem. **90i:03007**
Savioz, Christian ★ Extensions décidables et indécidables de la théorie monadique du deuxième ordre de deux fonctions de successeur. (French) [Decidable and undecidable extensions of the monadic second-order theory of two successor functions] **90k:03008**
Schmidt-Schauss, Manfred Implication of clauses is undecidable. **90f:68159**
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Sigal, Ron Undecidable complexity statements in E_{S}^{a}-arithmetic. **90d:03083**
Strebel, Ralph *see* **Baumslag, Gilbert; et al., 90a:20066**
Swart, Charles (*with* Richards, Dana) On the inference of strategies. **90i:90124**
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03D40 Word problems, etc. [see also 06B25, 08A50, 20F10]

Büchi, J. Richard (*with* Senger, Steven) Definability in the existential theory of concatenation and undecidable extensions of this theory. **90a:03069**
Lockhart, Jody Meyer An HNN-extension with cyclic associated subgroups and with unsolvable conjugacy problem. **90d:03086**
Patel-Schneider, P. F. Undecidability of subsumption in NIKL. **90b:03058**
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Baumslag, Gilbert (*with* Gildenhuys, Dion; Strebel, Ralph) Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. III. **90a:20066**
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Diekert, Volker Word problems over traces which are solvable in linear time. (*see* **90i:68014**)
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Narendran, Paliath (*with* Otto, Friedrich) Preperfectness is undecidable for Thue systems containing only length-reducing rules and a single commutation rule. **90a:03058**
— (*with* Stillman, Jonathan) It is undecidable whether the Knuth-Bendix completion procedure generates a crossed pair. (*see* **90i:68014**)
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Shiryaev, D. V. Unsolvability of certain algorithmic problems for nonbranching programs. **90b:68023**
Siekmann, Jörg H. (*with* Szabó, Peter[1]) The undecidability of the $\mathrm{D_A}$-unification problem. **90f:03027**
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Strebel, Ralph *see* **Baumslag, Gilbert; et al., 90a:20066**
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Tretkoff, Carol Complexity, combinatorial group theory and the language of palutators. **90e:68039**

03D45 Theory of numerations, effectively presented structures [see also 03C57]

Akhtyamov, R. B. Some remarks on the index sets of canonical recursively enumerable families of finite sets. (Russian) **90i:03049**
Dobritsa, V. P. Local classes and computable indexings. (Russian) **90b:03059**
Downey, R. G. (*with* Remmel, J. B.) Classification of degree classes associated with r.e. subspaces. **90d:03087**
— (*with* Moses, Michael F.) On choice sets and strongly nontrivial self-embeddings of recursive linear orders. **90j:03085**
Gamova, A. N. Metarecursiveness of autonomous numerations. (Russian) **90a:03070**
Kanda, Akira Retracts of numerations. **90d:03088**
Kasymov, N. Kh. Algebras with residually finite positively presented expansions. (Russian) **90m:03077**
Lin′kov, V. M. Numeration of a system of finite sets. (Russian) (*see* **90d:00028**)

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Orlicki, Andrzej On some problems related to enumerated types of algebras. **90h:03029**
— Strong reducibilities of enumerations and partial enumerated algebras. **90m:03078a**
— Covariant hom-functors on the category of enumerated sets. **90c:03036**
— Correction to: "Strong reducibilities of enumerations and partial enumerated algebras". **90m:03078b**
Remmel, J. B. *see* **Downey, R. G., 90d:03087**
Selivanov, V. L. Index sets of quotient-objects of the Post numeration. **90c:03037**
— Algorithmic complexity of algebraic systems. **90e:03055**
Ventsov, Yu. G. A family of recursively enumerable sets with finite classes of nonequivalent univalent computable numerations. (Russian) **90c:03038**

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Abdrakhmanova, G. K. Intensional description of Ershov f_A-spaces. (Russian) **90m:68084**
Ballard, David Combinatory completeness without classical equality. **90m:03027**
Dichev, Angel V. Search computability and computability with numberings are equivalent in the case of finite set of objects. **90d:03092**
Gasarch, W. I. (*with* Kueker, D. W.; Mount, D. M.) Recursive categoricity of highly recursive graphs. **90c:05198**
Goncharov, S. S. (*with* Molokov, A. V.; Romanovskiĭ, N. S.) Nilpotent groups of finite algorithmic dimension. **90d:20061**
Gurevich, Yuri (*with* Shelah, Saharon) Time polynomial in input or output. **90f:03071**
Kueker, D. W. *see* **Gasarch, W. I.; et al., 90c:05198**
Kummer, Martin Walter A note on direct sums of Friedberg numberings. **90m:03103**
Lewis, Alain A. An infinite version of Arrow's theorem in the effective setting. **90f:90009**
Longo, Giuseppe[1] From numbered sets to type theories. **90f:03030**
Molokov, A. V. *see* **Goncharov, S. S.; et al., 90d:20061**
Morozov, A. S. Algebraic processes and countable models. (Russian) **90i:68035**
Mount, D. M. *see* **Gasarch, W. I.; et al., 90c:05198**
Nerode, Anil (*with* Remmel, J. B.) Complexity theoretic algebra. I. Vector spaces over finite fields. **90d:03129**
Remmel, J. B. Recursive Boolean algebras. (*see* **90k:06004**)
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Ventsov, Yu. G. Nonuniform autostability of models. (Russian) **90d:03067**

03D50 Recursive equivalence types of sets and structures, isols

Barback, Joseph (*with* Jackson, William) On recursive functions and regressive isols. **90f:03079**
Dekker, J. C. E. (*with* Ellentuck, E.) Isols and the pigeonhole principle. **90h:03030**
Ellentuck, E. *see* **Dekker, J. C. E., 90h:03030**
Jackson, William *see* **Barback, Joseph, 90f:03079**
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— Some extension and rearrangement theorems for Nerode semirings. **90j:03086**

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Akhtyamov, R. B. Some remarks on the index sets of canonical recursively enumerable families of finite sets. (Russian) **90i:03049**
Borodin, Allan (*with* Cook, Stephen A.; Dymond, Patrick W.; Ruzzo, Walter L.; Tompa, Martin) Two applications of inductive counting for complementation problems. **90k:68049a**
— (*with* Cook, Stephen A.; Dymond, Patrick W.; Ruzzo, Walter L.; Tompa, Martin) Erratum: "Two applications of inductive counting for complementation problems". **90k:68049b**
Cai, Jin-Yi (*with* Gundermann, Thomas; Hartmanis, Juris; Hemachandra, Lane A.; Sewelson, Vivian; Wagner, Klaus Werner; Wechsung, Gerd) The Boolean hierarchy. I. Structural properties. **90e:68035**
— (*with* Gundermann, Thomas; Hartmanis, Juris; Hemachandra, Lane A.; Sewelson, Vivian; Wagner, Klaus Werner; Wechsung, Gerd) The Boolean hierarchy. II. Applications. **90e:68036**
Cook, Stephen A. *see* **Borodin, Allan; et al., 90k:68049a** *and* **90k:68049b**
Dymond, Patrick W. *see* **Borodin, Allan; et al., 90k:68049a** *and* **90k:68049b**
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Ivanov, Lyubomir L. Abstract hierarchies and degrees. **90d:03093**
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03D60 Recursion theory on ordinals, admissible sets, etc.

Lubarsky, Robert S. Admissibility spectra and minimality. **90m:03080**
— Sacks forcing sometimes needs help to produce a minimal upper bound. **90m:03081**
Rudnev, V. A. On the existence of an inseparable pair in the recursion theory of admissible sets. **90h:03031**

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03D65 Higher-type and set recursion theory

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Gamova, A. N. Generalized calculations with oracles. **90d:03091**
Shinoda, J. (*with* Slaman, Theodore A.) The continuum hypothesis and the theory of the Kleene degrees. **90k:03044**
Slaman, Theodore A. *see* **Shinoda, J., 90k:03044**
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Girard, Jean-Yves Normal functors, power series and λ-calculus. **90e:03015**
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03D70 Inductive definability

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Yasugi, Mariko An interpretation of intuitionistic analysis with restricted transfinite inductive definitions. **90e:03078**

03D75 Abstract and axiomatic recursion theory

Bellot, Patrick (*with* Jay, Véronique) Uniformly applicative structures, a theory of computability and polyadic functions. (*see* **90j:68003**)
Dichev, Angel V. Search computability and computability with numberings are equivalent in the case of finite set of objects. **90d:03092**
Heller, Alex An existence theorem for recursion categories. (*see* **90f:03003**)
Ivanov, Lyubomir L. Abstract hierarchies and degrees. **90d:03093**
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Mansfield, Richard The irrationals are not recursively enumerable. **90m:03082**
Normann, Dag Kleene-spaces. **90k:03045**
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Blum, Lenore (*with* Shub, Michael; Smale, Steve) On a theory of computation and complexity over the real numbers: NP-completeness, recursive functions and universal machines. **90a:68022**
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03E05 Combinatorial set theory

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Bergelson, Vitaly (*with* Hindman, Neil) Nonmetrizable topological dynamics and Ramsey theory. **90k:03046**

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— (*with* Jech, Thomas) Local clubs, reflection, and preserving stationary sets. **90a:03072**

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— More on stationary coding. (*see* **90a:03037**)

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— (*with* Stanley, Lee) Weakly compact cardinals and nonspecial Aronszajn trees. **90e:03060**

— (*with* Thomas, Simon) Subgroups of small index in infinite symmetric groups. II. **90b:03065**

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03E15 Descriptive set theory

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03E35 Consistency and independence results

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03G12 Quantum logic [see also 81B10]

Binder, Jiří A Loomis-Sikorski theorem for logics. (Russian summary) **90c:03063**
Giuntini, Roberto Quantum logics and relative Lindenbaum property. (German summary) **90e:03079**
Keller, Karsten Extreme point embeddings of orthoposets. (*see* **90a:00026**)
Navara, Mirko (*with* Rogalewicz, Vladimír) State isomorphism of orthomodular posets and hypergraphs. **90d:03134**
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Palko, Vladimír Topologies on quantum logics induced by measures. (Russian summary) **90i:03071**
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Rogalewicz, Vladimír (*with* Navara, Mirko) On constructions of orthomodular posets. (*see* **90a:00026**)
— *see also* **Navara, Mirko; et al.**, **90a:03106** *and* **90d:03134**
Tamura, Saburo A Gentzen formulation without the cut rule for ortholattices. **90b:03092**
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Trnková, Věra Symmetries and state automorphisms of quantum logics. (*see* **90a:00026**)

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Bogdanova, N. B. (*with* Kostenko, B. F.) ★ Некоторые физические применения нестандартных систем логики. (Russian) [Some physical applications of nonstandard logic systems] **90g:81018**
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Cattaneo, Gianpiero (*with* Nisticò, Giuseppe) A note on Aerts' description of separated entities. **90k:81019**
Cegła, Wojciech The covering property in a causal logic. **90j:81016**
Czkwianianc, Ewa Joint distributions and compatibility of observables in quantum logics. (Russian summary) **90a:81013**
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Dvurečenskij, Anatolij States on families of subspaces of pre-Hilbert spaces. **90j:46027**
Giuntini, Roberto *see* **Dalla Chiara, Maria Luisa**, **90i:81019**
Gudder, Stanley ★ Quantum probability. **90c:81013**
Keller, Karsten Sets of states and extreme points. **90c:81014**
Kôpka, František (*with* Riečan, Beloslav) On representation of observables by Borel measurable functions. **90e:28002**
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Krips, H. Irreducible probabilities and indeterminism. **90b:03023**
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Pitowsky, Itamar ★ Quantum probability—quantum logic. **90e:81020**
Pták, Pavel FAT ↔ CAT (in the state space of quantum logics). (*see* **90a:00026**)
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— Mielnik and Cantoni transition probabilities. **90i:81022**
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Rogalewicz, Vladimír *see* **Navara, Mirko**, **90c:81017**
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03G15 Cylindric and polyadic algebras; relation algebras

Andréka, Hajnal (*with* Thompson, Richard J.) A Stone-type representation theorem for algebras of relations of higher rank. **90d:03135**
Cīrulis, Jānis Two generalizations of the notion of a polyadic algebra. **90g:03064**
Harnau, Walter Ein verallgemeinerter Relationenbegriff für die Algebra der mehrwertigen Logik. II. Relationenpaare. [A generalized concept of relations for the algebra of many-valued logic. II. Pairs of relations] **90b:03093a**
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— Canonical relativized cylindric set algebras. **90c:03064**
— Finitary algebraic logic. **90j:03111**
Rozenberg, S. M. Varieties of Halmos algebras. (Russian) **90b:03094**
Sain, Ildikó Amalgamation, epimorphisms and definability properties in algebraic logic. **90g:03065**
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Ströhlein, Thomas *see* **Schmidt, Gunther W.**, **90g:00001**

03G20 Łukasiewicz and Post algebras

Items with secondary classifications in 03G20

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Figallo, Aldo M_3-lattices. (Spanish) **90g:06018**
Lacava, Francesco Injective Ł-algebras. (Italian. English summary) **90k:06018**

03G25 Other algebras related to logic

Abad, Manuel (*with* Monteiro, Luiz) ★ Monadic symmetric Boolean algebras. **90e:03080**
Grigoliya, R. Sh. Free Łukasiewicz algebras. (Russian) **90f:03100**
Guzmán, Fernando (*with* Squier, Craig C.) The algebra of conditional logic. **90m:03107**
Huang, Wan Hui Fuzzy BCK-algebras. (Chinese) (Not in MR)
Mel′nikova, L. I. *see* **Vorontsov, N. B.**, (**90m:00025**)
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Shabanov-Kushnarenko, S. Yu. (*with* Sharonova, N. V.; Shubin, I. Yu.) Some algorithms for canonical conjunctive minimization of formulas of an algebra of finite predicates. (Russian) (*see* **90m:00025**)
Sharonova, N. V. *see* **Shabanov-Kushnarenko, S. Yu.; et al.**, (**90m:00025**)
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Ahsan, J. (*with* Deeba, E. Y.; Thaheem, A. B.) Maximal quotient BCK-algebras. **90i:06017**
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— *see also* **Chaudhry, Muhammad Anwar**, **90f:06025**
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— (*with* Wang, Hua Xiong) Some universal properties of BCI-algebras. **90k:06021**
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Mundici, Daniele The C^*-algebras of three-valued logic. **90j:03039**
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Salimov, F. I. A family of distribution algebras. **90h:68088**
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Thompson, Richard J. Noncommutative cylindric algebras and relativizations of cylindric algebras. **90a:03107**
— *see also* **Andréka, Hajnal, 90d:03135**
Timofeeva, G. A. (*with* Shabanov-Kushnarenko, S. Yu.) An algebra of permutation operations. (Russian) **90g:68131**
Traczyk, Tadeusz On congruence convex BCK-algebras. **90c:06017**
Tropin, M. P. Finite pseudo-Boolean and topo-Boolean algebras that do not have an independent basis of quasi-identities. **90f:06022**
Varlet, J. C. *see* **Blyth, T. S.; et al., 90e:06023**
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Wang, Hua Xiong BCK-algebras generated by atoms. (Chinese. English summary) **90j:06024**
— *see also* **Chen, Zhao Mu, 90k:06021**
Zheng, Heng Wu An axiom system for ZY3 algebras. (Chinese. English summary) **90j:06025**

03G30 Categorical logic, topoi [see also 18B25]

Blass, Andreas Geometric invariance of existential fixed-point logic. **90g:03066**
Cockett, J. R. B. On the decidability of objects in a locos. **90f:03101**
Dupont, Pascal (*with* Loiseau, Bruno) A logical glance at sheaves. **90m:03108**
Ghilardi, S. (*with* Meloni, G. C.) A category-theoretic approach to modal predicate and distributive linear logic. (Italian) (*see* **90f:03003**)
Johnstone, Peter T. (*with* Robinson, Edmund) A note on inequivalence of realizability toposes. **90b:03095**
Lafaye de Micheaux, N. *see* **Preller, A., 90i:03072**
Lavendhomme, R. (*with* Lucas, Thierry Eugène) Toposes and intuitionistic theories of types. **90d:03138**
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MacCaull, W. A. On the validity of Hilbert's Nullstellensatz, Artin's theorem, and related results in Grothendieck toposes. **90a:03109**
Makkai, Michael Strong conceptual completeness for first-order logic. **90b:03096**
Meloni, G. C. *see* **Ghilardi, S., (90f:03003)**
Meseguer, José General logics. **90j:03112**
Pitts, Andrew M. Conceptual completeness for first-order intuitionistic logic: an application of categorical logic. **90c:03065**
Preller, A. (*with* Lafaye de Micheaux, N.) Intensional equality in categories with structure and coherence problems. **90i:03072**
Robinson, Edmund *see* **Johnstone, Peter T., 90b:03095**
Román, Leopoldo Ultradiophantine categories. **90d:03139**
Seely, R. A. G. Linear logic, $*$-autonomous categories and cofree coalgebras. **90h:03052**
— Polymorphic linear logic and topos models. **90m:03109**

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Blass, Andreas (*with* Scedrov, Andre) Freyd's models for the independence of the axiom of choice. **90d:03097**
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Burstall, Rod M. *see* **Rydeheard, David E., 90k:68108**
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Girard, Jean-Yves Normal functors, power series and λ-calculus. **90e:03015**
(Gray, John W.) *see* **Rydeheard, David E., 90k:68108**
Hyland, J. M. E. A small complete category. **90a:18007**
— (*with* Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. **90k:18004**
Jay, C. Barry Languages for monoidal categories. **90f:18006**
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Lambek, J. Multicategories revisited. **90e:18010**
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Mawanda, Mbila-Mambu *see* **Loiseau, Bruno, 90k:18005**
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Mitchell, John C. (*with* Scott, Philip J.) Typed lambda models and Cartesian closed categories (preliminary version). **90f:03031**
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Rydeheard, David E. (*with* Burstall, Rod M.) ★ Computational category theory. **90k:68108**
Scedrov, Andre *see* **Blass, Andreas, 90d:03097**
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Toth, Herbert Categorial properties of f-set theory. **90m:03096**
Troelstra, A. S. (*with* van Dalen, D.) ★ Constructivism in mathematics. Vol. II. **90e:03002b**
Vasyukov, V. L. T-F-toposes for Lukasiewicz's infinite-valued logics. **90b:03029**

03G99 None of the above, but in this section

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Pigozzi, Don *see* **Blok, W. J., 90d:03140**

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Tokarz, Marek Synonymy in sentential languages: a pragmatic view. **90e:03035**

03Hxx Nonstandard models [see also 03C62]

03H05 Infinitesimal analysis in pure mathematics [see also 26E35, 28E05, 30G10, 46Q05, 54J05]

Baratchart, Laurent (*with* Grimm, José) Sur un certain type de problèmes combinatoires. [On a certain type of combinatorial problem] (*see* **90j:03116**)
Bebbouchi, Rachid Unicité des solutions d'une équation différentielle. [Uniqueness of the solutions of a differential equation] (*see* **90j:03116**)
Benninghofen, B. *see* **Stroyan, K. D.; et al., 90b:03097**
Benoit, Eric Loupe variable. [A variable loupe] (*see* **90j:03116**)
Callot, Jean-Louis Les graphes des itérés de $f_\lambda(x) = \lambda x(1-x)$. [The graphs of iterates of $f_\lambda(x) = \lambda x(1-x)$] (*see* **90j:03116**)
Diener, Francine (*with* Diener, Marc) Fleuves. [Rivers] (*see* **90j:03116**)
Diener, Marc Une initiation aux outils non standard fondamentaux. [An introduction to the fundamental tools of nonstandard analysis] (*see* **90j:03116**)
— *see also* **Diener, Francine, (90j:03116)** *and* **Proceedings: School on Nonstandard Analysis and Representation of the Real, 90j:03116**
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Li, Bang He (*with* Zhang, Ji Jiang) Skies and monads. **90i:03074**
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— (*with* Wallet, G.) Une théorie relative des ensembles internes. (English summary) [A relative internal set theory] **90a:03110**
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— Fonctions presque-périodiques. [Almost periodic functions] (*see* **90j:03116**)
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03H10 Other applications of infinitesimal analysis

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Ivanov, Aleksandr Anatol'evich Elementary extensions of recursively saturated models of Presburger arithmetic. (Russian) **90h:03021**
Kalina, Martin (*with* Zlatoš, Pavol) Cuts of real classes. **90d:03112**
— (*with* Zlatoš, Pavol) Borel classes in AST. Measurability, cuts and equivalence. **90i:03059**
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03H20 Other nonstandard models [see also 54J05]

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Zlatoš, Pavol *see* **Kalina, Martin, 90d:03112**

04–XX Set theory

04–01 Elementary exposition; textbooks

Artmann, Benno ★ The concept of number. **90c:04001**
(Griffiths, H. B.) *see* **Artmann, Benno, 90c:04001**

Items with secondary classifications in 04–01

Meschiari, Mauro A definition of the natural numbers. (Italian) **90k:03010**

04–02 Advanced exposition (research surveys, monographs, etc.)

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04–03 Historical (must also be assigned at least one classification number from Section 01)

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(Kolmogorov, A. N.) *see* **Kanoveĭ, V. G., 90a:01057**
Kuratowski, Kazimierz ★ Selected papers. **90h:01024**
(Levi, Beppo) *see* **Cassinet, Jean, 90a:01052**
Pla Carrera, Josep Alfred Tarski and set theory. (Catalan. English summary) **90m:03003**
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04A05 Relations, functions [see also 08A02]

Chen, Hui (*with* Jing, Feng Jie) Compound mappings and compound permutations. (Chinese. English summary) **90j:04001**
Clavelli, M. Universality, superuniversality, pseudomodels, pseudo-universe relations and elementary techniques. (Italian. English summary) **90f:04001**
Janssen, A. J. E. M. On exponentially weighted Toeplitz matrices and their use in the analysis of a frequency-domain, power-compensated adaptive filter. (*see* **90k:93007**)
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Lopez, Gérard (*with* Rauzy, Claire) Reconstructibilité des relations binaires par des familles de leurs restrictions. I. (English summary) [On the reconstructibility of binary relations from certain restrictions. I] **90a:04001a**
— (*with* Rauzy, Claire) Reconstructibilité des relations binaires par des familles de leurs restrictions. II. (English summary) [On the reconstructibility of binary relations from certain restrictions. II] **90a:04001b**
Rauzy, Claire *see* **Lopez, Gérard, 90a:04001a** *and* **90a:04001b**
Šlapal, Josef Relations of type α. **90h:04001**

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Ebanks, B. R. (*with* Kannappan, Pl.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. **90a:39013**
Gauthier, Henri Sur les simplifications des produits lexicographiques d'ensembles totalement ordonnés. (English summary) [On cancellations in lexicographic products of linear orderings] **90e:06001**
Kannappan, Pl. *see* **Ebanks, B. R.; et al., 90a:39013**
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Šlapal, Josef On closure operations induced by binary relations. **90b:54002**

04A10 Transfinite numbers

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Raoult, Jean-Claude Proving open properties by induction. **90k:04001**
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Garciadiego, Alejandro R. Cantor and the paradoxes. (Spanish) **90d:04002**
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Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) **90m:04003**

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 28A05, 54H05]

Grishin, V. N. (*with* Kanoveĭ, V. G.) Work on descriptive set theory carried out at the V. A. Steklov Institute of Mathematics. (Russian) **90e:04001**
Kanoveĭ, V. G. *see* **Grishin, V. N., 90e:04001**
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Pfeffer, W. F. (*with* Prikry, Karel) Small spaces. **90m:04001**
Prikry, Karel *see* **Pfeffer, W. F., 90m:04001**
Zajíček, Luděk On σ-porous sets and Borel sets. **90m:04002**

Items with secondary classifications in 04A15

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Corazza, Paul The generalized Borel conjecture and strongly proper orders. **90c:03042**
Dowd, Martin An extension of the Lebesgue measure pertaining to the repeated experiment. **90h:28003**
Harrington, Leo (*with* Marker, David; Shelah, Saharon) Borel orderings. **90c:03041**
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Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) **90m:04003**
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04A20 Combinatorial [see also 05A05]; filters

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Just, Winfried A bounded paradoxical subset of the plane. (Russian summary) **90e:04003**
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Renaud, J.-C. *see* **Sarvate, D. G., 90e:05004**
Rödl, V. *see* **Pelant, Jan; et al., 90e:54059**
Ross, David Andrew Tree self-embeddings. **90b:06005**
Rothschild, Bruce L. *see* **Graham, R. L.; et al., 90m:05003**
Sarvate, D. G. (*with* Renaud, J.-C.) On the union-closed sets conjecture. **90e:05004**
Shelah, Saharon ★ Around classification theory of models. **90a:03037**
— The existence of coding sets. (*see* **90a:03037**)
— More on stationary coding. (*see* **90a:03037**)
— Remarks on squares. (*see* **90a:03037**)
— (*with* Stanley, Lee) Weakly compact cardinals and nonspecial Aronszajn trees. **90e:03060**
Sidorenko, A. F. Exact values of Turán numbers. (Russian) **90a:05008**
Simon, Petr *see* **Pelant, Jan; et al., 90e:54059**
Spencer, Joel H. *see* **Graham, R. L.; et al., 90m:05003**
Stanley, Lee *see* **Shelah, Saharon, 90e:03060**
Tuza, Zsolt Intersection properties and extremal problems for set systems. **90f:05100**
Weiss, William A. R. *see* **Dow, Alan; et al., 90j:03092**
Zachariades, Th. *see* **Kalamidas, N., 90i:46031**

04A25 Axiom of choice and related propositions (Zorn's lemma, etc.) [see also 03E25]

Banaschewski, B. Compact regular frames and the Sikorski theorem. **90e:04004**
Diener, Karl-Heinz Two new algebraic equivalents to the axiom of choice. **90e:04005**
Kim, Sang Mun^2 Variants of the well ordering theorem and the axioms of choice and multiple choice. **90g:04002**
Mańka, R. Turinici's fixed point theorem and the axiom of choice. **90i:04002**
McCartan, S. D. Topological equivalents of the axiom of choice. **90d:04004**
Rav, Yehuda Subdirect decomposition of rings and the axiom of choice. **90d:04005**
Zhou, Ge Equivalence of some theorems in the ZFC axiom system. (Chinese) (Not in MR)

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Buskes, G. (*with* van Rooij, A.) Small Riesz spaces. **90e:46009**
Cassinet, Jean The approximation principle of Beppo Levi. An attempt at replacing the axiom of choice (1918–1923). (Italian) **90a:01052**
Feldman, David (*with* Henriksen, M.) f-rings, subdirect products of totally ordered rings, and the prime ideal theorem. **90f:06031a**
— *see also* **Luxemburg, W. A. J., 90f:06031b**
Henriksen, M. *see* **Feldman, David, 90f:06031a** *and* **Luxemburg, W. A. J., 90f:06031b**
(Levi, Beppo) *see* **Cassinet, Jean, 90a:01052**
Luxemburg, W. A. J. A remark on a paper by D. Feldman and M. Henriksen concerning the definition of f-rings: "f-rings, subdirect products of totally ordered rings, and the prime ideal theorem" [Nederl. Akad. Wetensch. Indag. Math. 50 (1988), no. 2, 121–126; MR 90f:06031a]. **90f:06031b**
Mańka, R. Some forms of the axiom of choice. (German summary) **90j:03091**
Morillon, Marianne Une forme géométrique de l'axiome de l'idéal premier. [A geometric form of the prime ideal axiom] **90f:06015**
Paseka, Jan The Tychonoff product theorem for finite spaces and the Boolean ultrafilter theorem are equivalent. (Arabic summary) **90k:03049**
Pollard, Stephen Plural quantification and the axiom of choice. **90i:03053**
Raoult, Jean-Claude Proving open properties by induction. **90k:04001**
Rav, Yehuda Semiprime ideals in general lattices. **90e:06015**
— Lattice theoretical equivalences of the ultrafilter principle. **90d:03098**
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04A30 Continuum hypothesis, generalized continuum hypothesis [see also 03E50, 54A25]

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Heindorf, Lutz A note on irredundant sets. **90a:08006**
Miller, Harry I. On a property of Hamel bases. (Italian summary) **90e:04002**
Pantsulaya, G. R. Independent families of sets and some of their applications to measure theory. (Russian. English and Georgian summaries) **90m:03085**
Pla Carrera, Josep Alfred Tarski and set theory. (Catalan. English summary) **90m:03003**
Sersouri, A. ω-independence in nonseparable Banach spaces. **90a:46021**
Shelah, Saharon On reconstructing separable reduced p-groups with a given socle. **90g:20079**
Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. **90j:03095**
(Tarski, Alfred) *see* **Pla Carrera, Josep, 90m:03003**

04A99 Miscellaneous topics

Huang, Ming Yu The equivalence of Cantor's and Dedekind's theories of the real numbers. (Chinese) **90m:04004**

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Clavelli, M. Universality, superuniversality, pseudomodels, pseudo-universe relations and elementary techniques. (Italian. English summary) **90f:04001**
Kakuda, Yuzuru Set theory extracted from Cantor's theological ontology. **90d:03012**

05–XX Combinatorics {For finite fields, see 11Txx.}

Baranov, V. I. (*with* Stechkin, B. S.) ★ Экстремальные комбинаторные задачи и их приложения. (Russian) [Extremal combinatorial problems and their applications] **90m:05001**
Stechkin, B. S. *see* **Baranov, V. I., 90m:05001**

05–01 Elementary exposition; textbooks

Alexanderson, G. L. *see* **Hillman, Abraham P.; et al., 90d:05001**
Anderson, Ian ★ A first course in combinatorial mathematics. **90i:05001**
Buckley, Fred (*with* Harary, F.) ★ Distance in graphs. **90m:05002**
Grassl, Richard M. *see* **Hillman, Abraham P.; et al., 90d:05001**
Harary, F. *see* **Buckley, Fred, 90m:05002**
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(Medkov, K.) *see* **Combinatorial analysis, 90f:05002**
Nägler, Günter *see* **Walther, Hansjoachim, 90g:05001**
(Rybnikov, K. A.) *see* **Combinatorial analysis, 90f:05002**
Townsend, Michael ★ Discrete mathematics: applied combinatorics and graph theory. **90f:05001**
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Problems:
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Baxter, Nancy (*with* Dubinsky, Ed; Levin, Gary) ★ Learning discrete mathematics with ISETL. **90c:00002**
Böhme, Thomas (*with* Walther, Hansjoachim) Über neuere Entwicklungen der Graphentheorie. [On recent developments of graph theory] **90e:05025**
Deng, Chai Ling (*with* Lim, Chong Keang) Augmentation and decomposition of k-requirement matrices. **90m:15002**
Dubinsky, Ed *see* **Baxter, Nancy; et al., 90c:00002**
(Efimov, Oleg) *see* **Yablonskiĭ, S. V., 90k:00012**

Gavrilov, G. P. (*with* Sapozhenko, A. A.) ★ Selected problems in discrete mathematics. **90m:00011**
Guy, Richard K. The strong law of small numbers. **90c:11002**
Levin, Gary *see* **Baxter, Nancy; et al., 90c:00002**
Lim, Chong Keang *see* **Deng, Chai Ling, 90m:15002**
Sapozhenko, A. A. *see* **Gavrilov, G. P., 90m:00011**
Schmidt, Gunther W. (*with* Ströhlein, Thomas) ★ Relationen und Graphen. (German) [Relations and graphs] **90g:00001**
Ströhlein, Thomas *see* **Schmidt, Gunther W., 90g:00001**
(Wadhwa, Natalia V.) *see* **Gavrilov, G. P., 90m:00011**
(Wadhwa, R. S.) *see* **Gavrilov, G. P., 90m:00011**
Walther, Hansjoachim *see* **Böhme, Thomas, 90e:05025**
Yablonskii, S. V. ★ Introduction to discrete mathematics. **90k:00012**

05–02 Advanced exposition (research surveys, monographs, etc.)

Brouwer, A. E. (*with* Cohen, Arjeh M.; Neumaier, A.) ★ Distance-regular graphs. **90e:05001**
Cohen, Arjeh M. *see* **Brouwer, A. E.; et al., 90e:05001**
Graham, R. L. (*with* Rothschild, Bruce L.; Spencer, Joel H.) ★ Ramsey theory. **90m:05003**
Neumaier, A. *see* **Brouwer, A. E.; et al., 90e:05001**
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Wilf, Herbert S. ★ Combinatorial algorithms: an update. **90g:05002**

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Mohar, Bojan (*with* Woess, Wolfgang) A survey on spectra of infinite graphs. **90d:05162**
Nemhauser, George L. (*with* Wolsey, Laurence A.) ★ Integer and combinatorial optimization. **90b:90097**
Woess, Wolfgang *see* **Mohar, Bojan, 90d:05162**
Wolsey, Laurence A. *see* **Nemhauser, George L., 90b:90097**

05–03 Historical (must also be assigned at least one classification number from Section 01)

Mulder, Henry Martyn To see the history for the trees. **90e:05002**

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Agarwal, Ratan P. Some recent works of Ramanujan—an overview. **90b:01037**
Andrews, George J. J. Sylvester, Johns Hopkins and partitions. **90i:01014**
(Dirac, Gabriel Andrew) *see* **Erdős, Paul, 90b:01072**
Erdős, Paul On some aspects of my work with Gabriel Dirac. **90b:01072**
(Ramanujan, Srinivasa) *see* **Agarwal, Ratan P., 90b:01037**
Sachs, Horst Einige Gedanken zur Geschichte und zur Entwicklung der Graphentheorie. [Some thoughts on the history and development of graph theory] **90i:01001**
(Sylvester, J. J.) *see* **Andrews, George, 90i:01014**

05–04 Explicit machine computation and programs (not the theory of computation or programming)

Cocan, Moise Several considerations regarding the generation of graphs. (*see* **90m:00044**)
Fujisawa, Toshio *see* **Masuda, Sumio; et al., 90m:05004**
Jeger, M. Kombinatorik mit dem Computer: Klassifikationen und damit verwandte Figuren. [Combinatorics with the computer: classifications and figures related to them] **90j:05001**
Kashiwabara, Toshinobu *see* **Masuda, Sumio; et al., 90m:05004**
Masuda, Sumio (*with* Nakajima, Kazuo; Kashiwabara, Toshinobu; Fujisawa, Toshio) Efficient algorithms for finding maximum cliques of an overlap graph. **90m:05004**
Nakajima, Kazuo *see* **Masuda, Sumio; et al., 90m:05004**
Shiraishi, Shuji A parallel algorithm for the maximum uniform partition of line graph. **90m:05005**
Valibouze, Annick Fonctions symétriques et changements de bases. (English summary) [Symmetric functions and changes of basis] **90m:05006**

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Amir, Amihood (*with* Landau, Gad M.) Fast parallel and serial multidimensional approximate array matching. (*see* **90m:00047**)
Arbib, Claudio A polynomial algorithm for partitioning line-graphs. **90k:90126**
Carlson, David A. (*with* Sugla, Binay) Adapting shuffle-exchange like parallel processing organizations to work as systolic arrays. (Not in MR)
Chang, Chên Hua Total domination in block graphs. **90a:05175**
Chase, Phillip J. Combination generation and graylex ordering. **90i:05002**
Chaudhuri, Pranay Fast parallel algorithms for a class of graph problems. **90i:68045**
Crochemore, Maxime Constant-space string-matching. (*see* **90m:00047**)
Cvetković, Dragoš M. Theory of graph spectra—a theory in which mathematics and computer science are interconnected in a special way. (Serbo-Croatian) **90f:05095**
Diks, Krzysztof *see* **Rytter, Wojciech, 90m:68052**
Dolenc, Tomi k-connectivity and the overlapping stratified clustering algorithm. (*see* **90h:05002**)
Eilam-Tzoreff, Tali (*with* Vishkin, Uzi) Matching patterns in strings subject to multilinear transformations (extended abstract). (*see* **90m:00047**)
Fussell, Donald (*with* Thurimella, Ramakrishna) Successive approximation in parallel graph algorithms (extended abstract). (*see* **90i:68014**)
Gurke, Renate ★ Graphenalgorithmen für MIMD-Rechner. (German) [Graph algorithms for MIMD computers] (Not in MR)
Hassin, Refael (*with* Megiddo, Nimrod) On orientations and shortest paths. **90h:05061**
Huang, Nen Fu A divide-and-conquer algorithm for constructing relative neighborhood graph. (Not in MR)
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Saparov, M. ★ Рекуррентные теоретико-графовые функции и алгоритмы их вычисления. (Russian) [Recursive graph-theoretic functions and algorithms for their computation] **90k:05136**
Schimmler, Manfred (*with* Schröder, Heiko) A simple systolic method to find all bridges of an undirected graph. (*see* **90h:68091**)
Schröder, Heiko *see* **Schimmler, Manfred, (90h:68091)**
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Sugla, Binay *see* **Carlson, David A.,** (Not in MR)
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05–06 Proceedings, conferences, etc.

(Acketa, Dragan M.) *see* **Graph theory, 90h:05002**
(Bloom, Gary S.) *see* **Proceedings: Conference on Combinatorial Mathematics, 90d:05002**
(Bollobás, Béla) *see* **Graph theory and combinatorics, 90a:05002**
(Borowiecki, Mieczysław) *see* **Graphs, hypergraphs and matroids, 90m:05008**
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(Capocelli, Renato M.) *see* **Sequences, 90m:00047**
(Gopalan, M. N.) *see* **Optimization, design of experiments and graph theory, 90a:00024**
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(Patwardhan, G. A.) *see* **Optimization, design of experiments and graph theory, 90a:00024**
(Ray-Chaudhuri, D. K.) *see* **Coding theory and design theory, 90k:94003**
(Schneider, Hans-Jürgen) *see* **Graph-theoretic concepts in computer science, 90f:68004**
(Simeone, B.) *see* **Combinatorial optimization, 90j:90076**

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  Optimization, Design of Experiments and Graph Theory ★ Optimization, design of experiments and graph theory. **90a:00024**
Workshop:
  Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **90f:68004**
  Sequences: Combinatorics, Compression, Security, and Transmission ★ Sequences. **90m:00047**

05Axx Classical combinatorial problems

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Abbott, H. L. (*with* Liu, Andy C. F.) On property $B(4)$ of families of sets. **90c:05001**
Alon, Noga (*with* Füredi, Zoltán) On the kernel of intersecting families. **90d:05004**
— (*with* Frankl, Peter) Families in which disjoint sets have large union. **90g:05003**
Bapat, R. B. A constructive proof of a permutation-based generalization of Sperner's lemma. **90c:05002**
Berkovich, T. Ya. (*with* Berkovich, Ya. G.) Primitive systems of subsets of a finite set. (Russian) **90f:05003**
Berkovich, Ya. G. *see* **Berkovich, T. Ya., 90f:05003**
Boros, Endre (*with* Füredi, Zoltán; Kahn, Jeffry N.) Maximal intersecting families and affine regular polygons in $PG(2,q)$. **90g:05004**
de Caen, D. (*with* Kreher, Donald L.; Wiseman, J.) On constructive upper bounds for the Turán numbers $T(n,2r+1,2r)$. **90c:05003**
Cameron, Peter J. (*with* Frankl, Peter; Kantor, W. M.) Intersecting families of finite sets and fixed-point-free 2-elements. **90c:05004**
Cao, Ru Cheng A generalized inclusion-exclusion principle and its applications. (Chinese. English summary) **90a:05004**
Carfi, Vito (*with* Le Donne, Attilio) Discordant permutations with the three permutations $(1,2,\cdots,n)$, $(2,3,\cdots,n,1)$, $(3,\cdots,n,1,2)$. **90e:05003**
Chan, Tat Hung Nondecreasing subsequences of t-sequences. **90k:05001**
Chang, Chên Hua On the number of SDR of a (t,n)-family. **90j:05010**
Chase, Phillip J. Combination generation and graylex ordering. **90i:05002**
Chor, Benny (*with* Geréb-Graus, Mihály) On the influence of single participant in coin flipping schemes (extended abstract). (*see* **90m:00047**)
Crampin, D. J. (*with* Rogers, D. G.) An arithmetic of complete permutations with constraints. II. Case studies. **90j:05011b**
Demetrovics, János (*with* Katona, Gyula O. H.; Pálfy, P. P.) On the number of unions in a family of sets. **90g:05005**
Frankl, Peter Intersection theorems for finite sets and geometric applications. **90b:05001**
— Old and new problems on finite sets. **90c:05005**
— A lower bound on the size of a complex generated by an antichain. **90g:05006**
— (*with* Füredi, Zoltán) Extremal problems whose solutions are the blowups of the small Witt-designs. **90k:05002**
— *see also* **Cameron, Peter J.; et al., 90c:05004** *and* **Alon, Noga, 90g:05003**
Fröberg, Carl-Erik On a combinatorial problem related to permanents. **90d:05005**
Füredi, Zoltán (*with* Griggs, Jerrold R.; Holzman, Ron; Kleitman, Daniel) Representations of families of triples over GF(2). **90m:05010**
— *see also* **Alon, Noga, 90d:05004; Boros, Endre; et al., 90g:05004** *and* **Frankl, Peter, 90k:05002**
Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k=3$. **90k:05003**
Geréb-Graus, Mihály *see* **Chor, Benny, (90m:00047)**
Griggs, Jerrold R. (*with* Walker, James W.) Anticlusters and intersecting families of subsets. **90g:05007**
— (*with* Kleitman, Daniel) Minimum cutsets for an element of a Boolean lattice. **90k:05004**
— *see also* **Füredi, Zoltán; et al., 90m:05010**
Holzman, Ron *see* **Füredi, Zoltán; et al., 90m:05010**
Hurkens, C. A. J. (*with* Schrijver, A.) On the size of systems of sets every t of which have an SDR, with an application to the worst-case ratio of heuristics for packing problems. **90a:05005**
Kahn, Jeffry N. *see* **Boros, Endre; et al., 90g:05004**
Kantor, W. M. *see* **Cameron, Peter J.; et al., 90c:05004**
Katona, Gyula O. H. *see* **Demetrovics, János; et al., 90g:05005**
Katznelson, Yitzhak *see* **Furstenberg, Hillel, 90k:05003**
Kleitman, Daniel Collections of sets without unions and intersections. **90h:05004**
— *see also* **Griggs, Jerrold R., 90k:05004** *and* **Füredi, Zoltán; et al., 90m:05010**

Komjáth, Péter Set systems with finite chromatic number. **90k:05005**
Kreher, Donald L. *see* **de Caen, D.; et al., 90c:05003**
Le Donne, Attilio *see* **Carfi, Vito, 90e:05003**
Lehel, J. Gallai-type results for multiple boxes and forests. **90d:05006**
Leont′ev, V. K. (*with* Smetanin, Yu. G.) Reconstruction of vectors from sets of their fragments. **90h:05005**
Levi, Inessa Normal sets and their order-automorphisms. **90k:05006**
Liu, Andy C. F. *see* **Abbott, H. L., 90c:05001**
Liu, Yong Cai Generalized multisets and their applications. (Chinese. English summary) **90a:05006**
Matsumoto, Makoto (*with* Tokushige, Norihide) A generalization of the Katona theorem for cross t-intersecting families. **90h:05006**
— (*with* Tokushige, Norihide) The exact bound in the Erdős-Ko-Rado theorem for cross-intersecting families. **90g:05008**
Miyakawa, Masahiro (*with* Stojmenović, Ivan) Classification of P_{k2}. **90c:05006**
Nathanson, Melvyn B. Simultaneous systems of representatives for families of finite sets. **90b:05002**
Nešetřil, Jaroslav (*with* Rödl, V.) The partite construction and Ramsey set systems. **90g:05009**
Pálfy, P. P. *see* **Demetrovics, János; et al., 90g:05005**
Pelc, Andrzej Detecting a counterfeit coin with unreliable weighings. **90a:05007**
Pittel, Boris The average number of stable matchings. **90i:05003**
Poljak, Svatopluk (*with* Tuza, Zsolt) On the maximum number of qualitatively independent partitions. **90c:05007**
Prömel, Hans Jürgen (*with* Voigt, B.) A sparse Graham-Rothschild theorem. **90b:05003**
Reischer, Corina *see* **Simovici, Dan A., 90b:05004**
Renaud, J.-C. *see* **Sarvate, D. G., 90e:05004**
Rödl, V. *see* **Nešetřil, Jaroslav, 90g:05009**
Rogers, D. G. An arithmetic of complete permutations with constraints. I. An exposition of the general theory. **90j:05011a**
— *see also* **Crampin, D. J., 90j:05011b**
Rosenstiehl, Pierre Scaffold permutations. **90g:05010**
Sarvate, D. G. (*with* Renaud, J.-C.) On the union-closed sets conjecture. **90e:05004**
Schelp, R. H. (*with* Simonovits, M.; Sós, V. T.) Intersection theorems for t-valued functions. **90c:05008**
Schrijver, A. *see* **Hurkens, C. A. J., 90a:05005**
Simonovits, M. *see* **Schelp, R. H.; et al., 90c:05008**
Simovici, Dan A. (*with* Reischer, Corina) Several remarks on the impact of theory of relational databases on combinatorics. **90b:05004**
Smetanin, Yu. G. *see* **Leont′ev, V. K., 90h:05005**
Sós, V. T. *see* **Schelp, R. H.; et al., 90c:05008**
Stojmenović, Ivan *see* **Miyakawa, Masahiro, 90c:05006**
Tokushige, Norihide *see* **Matsumoto, Makoto, 90g:05008** *and* **90h:05006**
Torosyan, B. E. Estimates for the number of $\{F\}$-separable subsets of a finite set. (Russian. Armenian summary) **90k:05007**
Tuza, Zsolt Minimum number of elements representing a set system of given rank. **90g:05011**
— *see also* **Poljak, Svatopluk, 90c:05007**
Veklerov, Eugene On the decomposability of the stable marriage problem. **90b:05005**
Voigt, B. *see* **Prömel, Hans Jürgen, 90b:05003**
Walker, James W. *see* **Griggs, Jerrold R., 90g:05007**
Weakley, William D. On the number of C^∞-words of each length. **90g:05012**
Wiseman, J. *see* **de Caen, D.; et al., 90c:05003**

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Symposium:
  Quantum Groups and the Robinson-Schensted Correspondences ★ Ryoshigun to Robinson-Schensted taiō. (Japanese) [Quantum groups and the Robinson-Schensted correspondences] **90k:05008**

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Blizard, Wayne D. Multiset theory. **90b:03074**
Bollobás, Béla (*with* Leader, I.; Radcliffe, A. J.) Reverse Kleitman inequalities. **90f:52017**
Brenti, Francesco Unimodal polynomials arising from symmetric functions. **90g:05016**
Brown, Tom C. (*with* Freedman, Allen R.) Small sets which meet all the $k(n)$-term arithmetic progressions in the interval $[1,n]$. **90e:11029**
Cameron, Peter J. (*with* Deza, M.; Frankl, Peter) Intersection theorems in permutation groups. **90f:20004**
— Some sequences of integers. **90i:05011**
Chu, Wen Chang The enumeration of circular permutations and runs. (Chinese) **90h:05012**
Czyzowicz, Jurek (*with* Mundici, Daniele; Pelc, Andrzej) Ulam's searching game with lies. **90k:94026**
Demetrovics, János (*with* Vu Duc Thi) On keys in the relational data model. (German and Russian summaries) **90f:68040**
Deza, M. *see* **Cameron, Peter J.; et al., 90f:20004**
Diekert, Volker Word problems over traces which are solvable in linear time. (*see* **90i:68014**)
Eidswick, J. A. Short factorizations of permutations into transpositions. **90a:05010**
Engel, Konrad (*with* Erdős, Péter L.) Sperner families satisfying additional conditions and their convex hulls. **90d:05168**
Er, M. C. A minimal space algorithm for solving the Towers of Hanoi problem. **90g:68107**
— Classes of admissible permutations that are generatable by depth-first traversals of ordered trees. **90m:05044**
Erdős, Péter L. *see* **Engel, Konrad, 90d:05168**
Flajolet, Philippe (*with* Françon, J.) Elliptic functions, continued fractions and doubled permutations. **90k:05010**
Françon, J. *see* **Flajolet, Philippe, 90k:05010**
Frankl, Peter (*with* Graham, R. L.; Rödl, V.) On the distribution of monochromatic configurations. **90h:05019**
— *see also* **Cameron, Peter J.; et al., 90f:20004**
Freedman, Allen R. *see* **Brown, Tom C., 90e:11029**
Graham, R. L. *see* **Frankl, Peter; et al., 90h:05019**
Hanlon, Phil Jack symmetric functions and some combinatorial properties of Young symmetrizers. **90e:05008**
Hecker, Hans-Dietrich (*with* Herwig, Dietmar) Zur schnellen Zerlegung von Polygonen in sternförmige Polygone. [On fast decomposition of polygons into star-shaped polygons] **90c:68078**
Herwig, Dietmar *see* **Hecker, Hans-Dietrich, 90c:68078**
Jia, Xing De On a combinatorial problem of Erdős and Nathanson. (Chinese) **90i:11018**
— Representatives for finite sets. **90d:11023**
Kalyuzhnaya, S. A. Closure systems connected with indecomposable sets of attributes of relational databases. (Russian) **90f:68041**
Leader, I. *see* **Bollobás, Béla; et al., 90f:52017**
Modan, L. About a Sperner's result. (Romanian summary) **90f:05012**
Moszkowski, P. Arbres et suites majeures. (English summary) [Trees and major sequences] **90i:05004**
Mundici, Daniele *see* **Czyzowicz, Jurek; et al., 90k:94026**
Ochiai, Shōji On some property of Boolean matrix. (Japanese. English summary) **90c:05044**
Pelc, Andrzej *see* **Czyzowicz, Jurek; et al., 90k:94026**
Qu, Wan Ling A "covering" problem for subsets. (Chinese. English summary) **90d:05073**
Radcliffe, A. J. *see* **Bollobás, Béla; et al., 90f:52017**
Roberts, Fred S. Meaningless statements, matching experiments, and colored digraphs (applications of graph theory and combinatorics to the theory of measurement). **90i:92062**
Rödl, V. *see* **Frankl, Peter; et al., 90h:05019**
Ruskey, Frank Solution of some lattice path parity difference recurrence relations using involutions. **90a:05066**
Santoro, Nicola (*with* Urrutia, Jorge) Angle orders, regular n-gon orders and the crossing number. **90a:06006**
Sidney, J. B. (*with* Sidney, S. J.; Urrutia, Jorge) Circle orders, n-gon orders and the crossing number. **90a:06007**
Sidney, S. J. *see* **Sidney, J. B.; et al., 90a:06007**
Simion, Rodica Partially ordered sets associated with permutations. **90g:06007**
Stam, A. J. Some stochastic processes in a random permutation. **90f:60021**
Stembridge, John R. The Bruhat order and iterated exponentials. **90b:06006**
Tuza, Zsolt Intersection properties and extremal problems for set systems. **90f:05100**
Urrutia, Jorge *see* **Santoro, Nicola, 90a:06006** *and* **Sidney, J. B.; et al., 90a:06007**
Vande Vate, John H. Linear programming brings marital bliss. **90g:90132**
Vu Duc Thi *see* **Demetrovics, János, 90f:68040**
Weinbaum, C. M. Unique subwords in nonperiodic words. **90k:20097**
Wilf, Herbert S. ★ Combinatorial algorithms: an update. **90g:05002**
Yakymiv, A. L. On the number of A-permutations. **90d:60017**

05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65]

Alford, Cecil O. *see* **Fielder, Daniel C., 90b:05008**
Benzait, A. (*with* Voigt, B.) A combinatorial interpretation of $(1/k!)\Delta^k t^n$. **90b:05006**
Bressoud, David M. Problems on the Z-statistic. **90b:05007**
Butzer, P. L. (*with* Schmidt, Michael; Stark, E. L.; Vogt, L.) Central factorial numbers; their main properties and some applications. **90d:05007**
Cusick, Thomas W. Recurrences for sums of powers of binomial coefficients. **90h:05007**
Fielder, Daniel C. (*with* Alford, Cecil O.) On a conjecture by Hoggatt with extensions to Hoggatt sums and Hoggatt triangles. **90b:05008**
Gouyou-Beauchamps, D. (*with* Vauquelin, Bernard) Deux propriétés combinatoires des nombres de Schröder. (English summary) [Two combinatorial properties of the Schröder numbers] **90b:05009**
Hilton, Peter John (*with* Pedersen, Jean) Extending the binomial coefficients to preserve symmetry and pattern. **90e:05005**
Hough, Tim (*with* Ruskey, Frank) An efficient implementation of the Eades, Hickey, Read adjacent interchange combination generation algorithm. **90d:05008**
Lalović, Ilija Möbius functions of partially ordered sets. (Serbo-Croatian) **90h:05008**
Leonard, I. E. A sequence of multiple integrals. **90e:05006**
Marko, František Divisibility of binomial coefficients near a half-line and in convex sets. (Russian and Slovak summaries) **90d:05009**
McGregor, J. R. Asymptotic normality of the Munch numbers. **90d:05010**
Mercier, Armel Identities containing Gaussian binomial coefficients. **90f:05004**
Moak, Daniel S. Combinatorial multinomial matrices and multinomial Stirling numbers. **90g:05013**
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Pitman, Jane *see* **Sved, Marta, 90h:05010**
Razpet, Marko Congruences involving Bell polynomials. (Slovenian. English summary) **90h:05009**
Ruskey, Frank *see* **Hough, Tim, 90d:05008**
Schmidt, Michael *see* **Butzer, P. L.; et al., 90d:05007**
Sidorenko, A. F. Exact values of Turán numbers. (Russian) **90a:05008**
Stark, E. L. *see* **Butzer, P. L.; et al., 90d:05007**
Sved, Marta (*with* Pitman, Jane) Divisibility of binomials by prime powers: a geometrical approach. **90h:05010**
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Toader, Silvia (*with* Toader, Gh.) Generalized Stirling numbers. **90h:05011**
Vauquelin, Bernard *see* **Gouyou-Beauchamps, D., 90b:05009**
Vogt, L. *see* **Butzer, P. L.; et al., 90d:05007**
Voigt, B. *see* **Benzait, A., 90b:05006**
Watanabe, Toshihiro On the Littlewood-Richardson rule in terms of lattice path combinatorics. **90b:05010**

Vong, W. J. Powers of a prime dividing binomial coefficients. **90d:05011**

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erstel, J. (*with* Crochemore, Maxime; Pin, J.-E.) Thue-Morse sequence and p-adic topology for the free monoid. **90i:68054**
orwein, David (*with* Rankin, Stuart A.; Renner, Lex E.) Enumeration of injective partial transformations. **90d:05013**
renti, Francesco Unimodal, log-concave and Pólya frequency sequences in combinatorics. **90d:05014**
utzer, P. L. (*with* Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. **90m:33016**
uzeţeanu, Şerban Linear recurrences for the powers of a recurrent sequence. **90a:11023**
hang, Derek K. On circular Fibonacci binary sequences. **90m:11028**
hao, Chong-Yun (*with* Zhang, Mou Cheng) On multinomial coefficients modulo a prime. **90c:11013**
hen, Jing Run (*with* Li, Jian Yu[2]) On the sums of powers of natural numbers. (Chinese summary) **90i:11108**
rochemore, Maxime *see* **Berstel, J.; et al., 90i:68054**
ubeau, François On r-generalized Fibonacci numbers. **90g:11022**
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Iauss, M. *see* **Butzer, P. L.; et al., 90m:33016**
ones, Michael C. Inverse factorial moments. **90e:62025a**
— Erratum: "Inverse factorial moments". **90e:62025b**
i, Jian Yu[2] *see* **Chen, Jing Run, 90i:11108**
okot', N. V. On the integration of binomial differentials. (Russian) **90b:01019**
uo, Jian Jin Dai Xu numbers. (Chinese) **90i:01004**
— An Tu Ming, the first discoverer of the Catalan numbers. (Chinese. English summary) **90e:01007**
(Ming, An Tu) *see* **Luo, Jian Jin, 90e:01007**
Iorales, Jesus (*with* Flores-Riveros, A.) The generalization of the binomial theorem. **90c:81074**
Iagata, Shuro On computations of partial sums of binomial coefficients and related numbers. **90j:11019**
Iishi, Akihiro Simple derivation of Binet-Minc formula and Ryser formula on the evaluation of permanents. **90h:15014**
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aina, R. K. Extension of certain classes of generating functions. **90j:05017**
ankin, Stuart A. *see* **Borwein, David; et al., 90d:05013**
enner, Lex E. *see* **Borwein, David; et al., 90d:05013**
oss, Neil J. Remarks on the Möbius function of a subposet. **90c:06006**
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tam, A. J. Polynomials of binomial type and renewal sequences. **90m:60097**
ulanke, Robert A. A recurrence restricted by a diagonal condition: generalized Catalan arrays. **90c:05012**
ullivan, Francis J. A note on the q-gamma functions. (Italian summary) **90a:33002**
asilev, Mladen V. Relations between Bernoulli numbers and Euler numbers. **90g:11027**
olodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) **90i:11022**
Vright, Tommy A note on Pascal's triangle and simple random sampling. **90a:62037**
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— Kathy O'Hara's constructive proof of the unimodality of the Gaussian polynomials. **90g:05021**
eng, Jiang Pfaff-Saalschütz revisited. **90b:05018**
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05A15 Combinatorial enumeration problems, generating functions

Agur, Zvia (*with* Fraenkel, A. S.; Klein, S. T.) The number of fixed points of the majority rule. **90d:05012a**
— (*with* Fraenkel, A. S.; Klein, S. T.) Errata to: "The number of fixed points of the majority rule". **90d:05012b**
Bergeron, F. A combinatorial outlook on symmetric functions. **90g:05014**
Bonan, Stanford S. *see* **Clark, Dean S., 90a:05009**
Borwein, David (*with* Rankin, Stuart A.; Renner, Lex E.) Enumeration of injective partial transformations. **90d:05013**
Brent, Richard P. (*with* McKay, Brendan D.) On determinants of random symmetric matrices over Z_m. **90g:05015**
Brenti, Francesco Unimodal, log-concave and Pólya frequency sequences in combinatorics. **90d:05014**
— Unimodal polynomials arising from symmetric functions. **90g:05016**
Bressoud, David M. Lattice paths and the Rogers-Ramanujan identities. **90k:05009**
— In the land of OZ. **90j:05012**
Chu, Wen Chang On the lattice path methods in convolution-type combinatorial identities. (Chinese summary) **90j:05013**
— The enumeration of circular permutations and runs. (Chinese) **90h:05012**
— Natural q-analogs of Gould-Hsu inversions. (Chinese summary) **90b:05011**
Clark, Dean S. (*with* Bonan, Stanford S.) Experimental gambling system. **90a:05009**
Eğecioğlu, Ö. (*with* Remmel, J. B.) A combinatorial interpretation of the inverse Kostka matrix. **90m:05011**
(Egorychev, G. P.) *see* **Xu, Li Zhi, 90d:05017**
Eidswick, J. A. Short factorizations of permutations into transpositions. **90a:05010**
El-Zahar, Mohamed H. (*with* Sauer, Norbert W.) Asymptotic enumeration of two-dimensional posets. **90b:05012**
Flajolet, Philippe (*with* Françon, J.) Elliptic functions, continued fractions and doubled permutations. **90k:05010**
— (*with* Odlyzko, Andrew M.) Singularity analysis of generating functions. **90m:05012**
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Georghiou, Costas *see* **Philippou, Andreas N., 90g:05018**
Gouyou-Beauchamps, D. (*with* Viennot, Gérard Xavier) Equivalence of the two-dimensional directed animal problem to a one-dimensional path problem. **90c:05009**
— Standard Young tableaux of height 4 and 5. **90b:05013**
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Habsieger, Laurent Autour de la conjecture de Dyson. [Concerning the Dyson conjecture] **90k:05011**
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— On mixed insertion, symmetry, and shifted Young tableaux. **90j:05014**
Jiang, Mao Sen *see* **Xu, Li Zhi, 90d:05017**
Joichi, J. T. (*with* Stanton, Dennis) An involution for Jacobi's identity. **90f:05006**
Karp, Richard M. (*with* Luby, Michael; Madras, Neal) Monte Carlo approximation algorithms for enumeration problems. **90j:05015**
Katkova, O. M. A method for constructing Pólya frequency sequences. (Russian) **90h:05013**
Kato, Yoshifumi The determinants of matrices whose elements decrease geometrically in diagonal direction. **90k:05012**
Kennedy, John W. (*with* McKeon, K. A.; Palmer, Edgar M.; Robinson, Robert W.) Asymptotic number of symmetries in locally restricted trees. **90k:05013**
Klein, S. T. *see* **Agur, Zvia; et al., 90d:05012a** *and* **90d:05012b**
Körner, J. (*with* Marton, K.) New bounds for perfect hashing via information theory. **90a:05011**
Krattenthaler, Christian One-variable q-analogues for Abhyankar's inversion formula. **90f:05007**
Kuhn, Gabriella (*with* Soardi, P. M.) On the number of representations of an element in a polygonal Cayley graph. (Italian summary) **90h:05014**
Labelle, Jacques (*with* Yeh, Yeong Nan) Dyck paths of knight moves. **90g:05017**
Lascoux, Alain (*with* Pragacz, Piotr) S-function series. **90b:05014**
Leroux, Pierre (*with* Viennot, Gérard Xavier) Résolution combinatoire des systèmes d'équations différentielles. II. Calcul intégral combinatoire. (English summary) [Combinatorial resolution of systems of differential equations. II. Combinatorial integral calculus] **90d:05015**
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Masol, V. I. Some applications of algorithms for constructing subspaces over a finite field. **90k:05015**
Mays, Michael E. Counting chains in multisets and finite fields. **90h:05015**
McKay, Brendan D. *see* **Brent, Richard P., 90g:05015**
McKeon, K. A. *see* **Kennedy, John W.; et al., 90k:05013**
Meir, Amram (*with* Moon, J. W.) On an asymptotic method in enumeration. **90e:05007a**
— (*with* Moon, J. W.) Erratum: "On an asymptotic method in enumeration". **90e:05007b**
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Moszkowski, P. Arbres et suites majeures. (English summary) [Trees and major sequences] **90i:05004**
Ochiai, Shōji Determination of a type of incidence matrix for finite topologies. (Japanese. English summary) **90c:05010**
Odlyzko, Andrew M. *see* **Flajolet, Philippe, 90m:05012**
Olive, Gloria The ballot problem revisited. **90f:05008**
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Sagan, Bruce E. The ubiquitous Young tableau. **90k:05017**
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Singh, Surya Narain *see* **Rai, V. S., 90h:05016**
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Torriani, Hugo H. Constructive implicit function theorems. **90h:05017**
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— Theory and application of generalized Stirling number pairs. **90i:05005**
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— (*with* Bressoud, David M.) Lattice paths and multiple basic hypergeometric series. **90e:05010**
— New combinatorial interpretations of two analytic identities. **90g:05027**
Allouche, Jean-Paul (*with* Shallit, Jeffrey) Infinite products associated with counting blocks in binary strings. **90g:11013**
Andrews, George *see* **Agarwal, Ashok Kumar**^{1}**; et al., 90i:11113**
Arocha Pérez, Jorge Luis Antichains in ordered sets. (Spanish. English summary) **90f:06001**
Blyth, T. S. (*with* Fang, Jie; Varlet, J. C.) MS-algebras arising from hat racks, double fences and double crowns. **90i:06016**
Bressoud, David M. *see* **Agarwal, Ashok Kumar**^{1}**, 90e:05010** *and* **90i:11113**
Brunvoll, J. (*with* Cyvin, B. N.; Cyvin, S. J.; Gutman, Ivan) Essentially disconnected benzenoids: enumeration and classification of benzenoid hydrocarbons. IX. **90m:92104**
— *see also* **Cyvin, B. N.; et al., 90j:92055**
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Chang, Chên Hua On the number of SDR of a (t, n)-family. **90j:05010**
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Chu, Wen Chang A class of bivariate reciprocal formulas and some combinatorial identities. (Chinese. English summary) **90a:05017**
Compton, Kevin J. A logical approach to asymptotic combinatorics. II. Monadic second-order properties. **90c:03024**
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Enting, I. G. (*with* Guttmann, A. J.) Polygons on the honeycomb lattice. **90c:82050**
— (*with* Guttmann, A. J.) Area-weighted moments of convex polygons on the square lattice. **90e:82078**
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Greenwell, Raymond N. (*with* Landman, Bruce M.) On the existence of a reasonable upper bound for the van der Waerden numbers. **90b:11010b**
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Krattenthaler, Christian Enumeration of lattice paths and generating functions for skew plane partitions. **90d:05021**
Kwong, Y. H. Harris Minimum periods of $S(n, k)$ modulo M. **90f:05010**
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Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] **90m:20003**
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05A17 Partitions [see also 11P57, 11P65]

Agarwal, Ashok Kumar^1 Bijective proofs of some n-color partition identities. **90g:05023**
Almkvist, Gert Proof of a conjecture about unimodal polynomials. **90g:05024**
Bergelson, Vitaly (*with* Hindman, Neil) Density versions of two generalizations of Schur's theorem. **90b:05017**
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Boros, Endre (*with* Hammer, Peter L.) On clustering problems with connected optima in Euclidean spaces. **90d:05018**
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Dyson, Freeman J. Mappings and symmetries of partitions. **90f:05009**
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Goulden, I. P. Quadratic forms of skew Schur functions. **90a:05015**
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Padmavathamma On Andrews' generalized Frobenius partitions. **90k:05019**
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— (*with* Voigt, B.) A partition theorem for [0, 1]. **90h:05021**
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— *see also* **Agarwal, Ashok Kumar^1; et al., 90i:11113**
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Haiman, Mark On mixed insertion, symmetry, and shifted Young tableaux. **90j:05014**
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— *see also* **Eğecioğlu, Ö., 90m:05011**
Sagan, Bruce E. The ubiquitous Young tableau. **90k:05017**
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Senato, Domenico A bijective proof of the fundamental theorem on symmetric functions. **90d:05027**
— *see also* **Bonetti, F.; et al., 90b:15025**
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Stembridge, John R. Shifted tableaux and the projective representations of symmetric groups. **90k:20026**
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Torriani, Hugo H. Constructive implicit function theorems. **90h:05017**
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05A19 Combinatorial identities

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— New combinatorial interpretations of two analytic identities. **90g:05027**
Ainsworth, O. R. (*with* Neggers, J.) Combinatorial identities and a convolution algebra of power series. **90g:05028**
Arkin, Joseph (*with* Arney, David C.; Bergum, Gerald E.; Burr, Stefan A.; Porter, Bruce J.) Unique Fibonacci formulas. **90i:05007**
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Bressoud, David M. *see* **Agarwal, Ashok Kumar^1, 90e:05010**
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— A family of Lebesgue-Stieltjes integral identities. (Chinese. English summary) **90e:05012**
— A class of bivariate reciprocal formulas and some combinatorial identities. (Chinese. English summary) **90a:05017**
— A partition identity on binomial coefficients and its applications. **90e:05013**
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— Alternating simulation and multi-extension of an identity of Littlewood. (Chinese) **90k:05022**
— The splitting summation technique and combinatorial identities. (Chinese. English summary) **90j:05018**
Denis, R. Y. On certain q-series and continued fraction identities. **90e:05014**
— On certain summation of q-series and identities of Rogers-Ramanujan type. **90a:05018**
Egorychev, G. P. Combinatorial sums. Integral representation and calculation. (Russian) **90d:05023**
Henrici, Peter Product theorems for formal hypergeometric series. **90a:05019**
Huang, Chün Hsiung Some combinatorial identities in computer sorting. **90c:05014**
Kirillov, A. N. The Lagrange identity and the hook formula. (Russian. English summary) **90j:05023**
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Regev, Amitai From polynomial to formal identities. **90j:05019**
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Vershik, A. M. The hook formula and related identities. (Russian. English summary) **90j:05022**
Zeilberger, Doron Identities. **90i:05010**
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— (*with* Baxter, Rodney James) A motivated proof of the Rogers-Ramanujan identities. **90e:11147**
Askey, Richard Orthogonal polynomials and theta functions. **90h:33006**
Baxter, Rodney James *see* **Andrews, George, 90e:11147**
Bernard, Denis Towards generalized Macdonald's identities. **90j:17034**
Bressoud, David M. Almost poised basic hypergeometric series. **90e:33010**
— Problems on the Z-statistic. **90b:05007**
Butzer, P. L. (*with* Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. **90m:33016**
Chu, Wen Chang On the lattice path methods in convolution-type combinatorial identities. (Chinese summary) **90j:05013**
— Multifold analogues of Gould-Hsu inversions and their applications. **90j:65016**
Clarke, Francis The universal von Staudt theorems. **90a:11026**
Cosgrove, C. *see* **Glasser, M. L., 90h:11074**
Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models. II. Proof of the star-triangle relation and combinatorial identities. **90e:82077**
— (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) A new realization of the basic representation of $A_n^{(1)}$. **90f:17036**
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05Bxx Designs and configurations {For applications of design theory, see 94C30.}

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Kang, Qing De ★ Large sets of block designs. **90g:05037**
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— Partitioning sets of quintuples into designs. **90j:05034**
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— Resolvable double ternary systems with no repeated blocks. (Chinese) **90d:05039**
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05B07 Steiner triple systems

Gionfriddo, Mario Partial parallel classes in Steiner systems. **90j:05035**
Horák, Peter (*with* Rosa, Alexander) Decomposing Steiner triple systems into small configurations. **90a:05029**
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Phelps, Kevin T. (*with* Rosa, Alexander; Mendelsohn, Eric) Cyclic Steiner triple systems with cyclic subsystems. **90d:05042**
Quattrocchi, Gaetano *see* **Milici, Salvatore, 90a:05030**
Rees, Rolf (*with* Stinson, D. R.) On the existence of Kirkman triple systems containing Kirkman subsystems. **90a:05031**
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Schreiber, Shmuel Cyclical Steiner triple systems orthogonal to their opposites. **90m:05026**
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Clark, W. Edwin (*with* Dunning, Larry A.; Rogers, D. G.) The construction of some bit and byte error control codes using partial Steiner systems. (Not in MR)
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Migliorato, R. Correcting codes and Steiner triple systems. (Italian. English summary) **90f:94022**
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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

Arasu, K. T. Singer groups of biplanes of order 25. **90m:05028**
— (*with* Pott, Alexander) Relative difference sets with multiplier 2. **90a:05033**
— Abelian projective planes of square order. **90m:05029**
— (*with* Jungnickel, Dieter) Affine difference sets of even order. **90k:05035**
— (*with* Ray-Chaudhuri, D. K.) Affine difference sets and their homomorphic images. **90g:05042**
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Du, Ding Zhu (*with* Hwang, F. K.) Existence of symmetric skew balanced starters for odd prime powers. **90a:05034**
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— An elementary proof of Wilbrink's theorem. **90g:05043**
— (*with* Pott, Alexander) Computational nonexistence results for abelian affine difference sets. **90g:05045**
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05B15 Orthogonal arrays, Latin squares, Room squares

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Fujii, Yoshio (*with* Namikawa, Tetsuroh; Yamamoto, Sumiyasu) Two-symbol orthogonal arrays of strength t and $t + 3$ constraints. **90d:05049**
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Hyodo, Yoshifumi Note on fractional 2^{2p+2} factorial designs derived from two-symbol balanced arrays of strength $2p$. **90g:05051**

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05B20 Matrices (incidence, Hadamard, etc.)

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05B25 Finite geometries [see also 51D20, 51Exx]

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Petrenyuk, A. Ya. On the constructive enumeration of packings and coverings of index one. **90k:05054**
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Sane, Sharad S. (*with* Wirmani-Prasad, Anjana) Covering problems. **90d:05074**
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Cohen, Gérard Denis Nonlinear covering codes: a few results and conjectures. **90j:94045**
Crama, Y. (*with* Hammer, Peter L.) Bimatroidal independence systems. (German summary) **90f:05037**
David, Guy René (*with* Tomei, C.) The problem of the calissons. **90c:51024**
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Feo, Thomas A. (*with* Resende, Mauricio G. C.) A probabilistic heuristic for a computationally difficult set covering problem. **90c:90168**
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05B45 Tessellation and tiling problems

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Arney, David C. *see* **Arkin, Joseph; et al., 90g:05064**
Bergum, Gerald E. *see* **Arkin, Joseph; et al., 90g:05064**
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Du, Ding Zhu (*with* Hsu, D. Frank; Xu, K.-J.) Bounds on guillotine ratio. **90c:05063**
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Klarner, David A. (*with* Magliveras, Spyros S.) The number of tilings of a block with blocks. **90c:05064**
Magliveras, Spyros S. *see* **Klarner, David A., 90c:05064**
Porter, Bruce J. *see* **Arkin, Joseph; et al., 90g:05064**
Stehling, Thomas Paarweise kantendisjunkte maximale matchings in normalen periodischen Pflasterungen. (English summary) [Pairwise edge-disjoint maximal matchings in normal periodic tilings] **90a:05055**
Xu, K.-J. *see* **Du, Ding Zhu; et al., 90c:05063**

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Chinn, P. Z. (*with* Munton, Dan) On the edge-connectivity and separation sequences of rectangular grid graphs. **90f:05086**
Dahlke, Karl A. The Y-hexomino has order 92. **90b:05041**
— A heptomino of order 76. **90b:05042**
— Erratum: "A heptomino of order 76" [J. Combin. Theory Ser. A **51** (1989), no. 1, 127–128; MR 90b:05042]. **90j:05053**
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Fischer, Werner (*with* Koch, Elke) Genera of minimal balance surfaces. **90i:53009**
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Golomb, S. W. Polyominoes which tile rectangles. **90b:05040**
de la Harpe, Pierre Quelques problèmes non résolus en géométrie plane. [Some unsolved problems in plane geometry] **90m:52014**
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Makovicky, E. Ornamental brickwork. Theoretical and applied symmetrology and classification of patterns. **90c:51025**
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Terrasson, Jean-Claude *see* **Léger, Christian, 90a:51018**

05B50 Polyominoes

Bent, Samuel W. Stable transversals and stochastic functions in polyominoes. **90d:05075**
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Rawsthorne, Daniel A. Tiling complexity of small n-ominoes ($n < 10$). **90c:05065**

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Lehel, J. *see* **Gyárfás, A.; et al., 90c:05060**
Munton, Dan *see* **Chinn, P. Z., 90f:05086**
Piazza, Barry L. (*with* Ringeisen, Richard D.) A combinatorial analysis of Preston's dodecamino table. **90d:05102**
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05B99 None of the above, but in this section

Beresin, May (*with* Levine, Eugene; Winn, John) A chessboard coloring problem. **90d:05076**
Clark, Dean S. (*with* Shisha, Oved) Invulnerable queens on an infinite chessboard. **90h:05041**
Harborth, Heiko (*with* Oertel, Philipp; Prellberg, Thomas) No-three-in-line for seventeen and nineteen. **90f:05041**
Iványi, Antal Construction of infinite de Bruijn arrays. **90d:05077**
Le, Mao Hua (*with* Li, Wei Xuan; Wang, Edward T.) A generalization of the n queen problem. (Chinese. English summary) **90c:05066**
Leighton, Frank Thomson (*with* Shor, Peter) Tight bounds for minimax grid matching with applications to the average case analysis of algorithms. **90k:05056**
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Winn, John *see* **Beresin, May; et al., 90d:05076**
You, Bao San (*with* Mo, Shao Kui) On chess-moving (continued). (Chinese. English summary) **90a:05056**
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Finashin, S. M. Configurations of seven points in $\mathbf{RP}^3$. **90c:14035**
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Orlik, Peter ★ Introduction to arrangements. **90i:32018**
Palásti, Ilona A distance problem of P. Erdős with some further restrictions. **90i:52017**
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Szőnyi, Tamás (*with* Wettl, Ferenc) On complexes in a finite abelian group. I. **90c:20066a**
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Tripathi, Amitabha A box filling problem. **90j:05028**
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05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 94C15.}

Böhme, Thomas (*with* Walther, Hansjoachim) Über neuere Entwicklungen der Graphentheorie. [On recent developments of graph theory] **90e:05025**
Lai, Chun Hui On a conjecture of Erdős, Goodman and Pósa. (Chinese) (Not in MR)
Parthasarathy, Koduvayur Ramaiyer Basic definitions—link with algorithms—data structures—algorithm COMPs. **90d:05078a**
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05C05 Trees

Atallah, Mikhail J. *see* **Manning, Joseph**, **90f:05045**
Basart, J. M. (*with* Huguet, L.) Shortest trees and Steiner trees with rectilinear distances. (Catalan) **90k:05058**
Beltrami, Anna (*with* Lancia Cosimi, Luigina) Uniform distribution of a 2-connected-vertex graph. (Italian. English summary) **90a:05057**
Carter, M. (*with* Hendy, M.; Penny, D.; Székely, L. A.; Wormald, N. C.) On the distribution of lengths of evolutionary trees. **90k:05059**
Chartrand, Gary (*with* Oellermann, Ortrud R.; Swart, Henda C.) Degree representative trees in graphs. **90c:05067**
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Cheston, Grant A. (*with* Farley, Arthur M.; Hedetniemi, S. T.; Proskurowski, Andrzej) Centering a spanning tree of a biconnected graph. **90m:05043**
Chopra, Sunil On the spanning tree polyhedron. **90a:05058**
Chung, Fan R. K. (*with* Gardner, Martin; Graham, R. L.) Steiner trees on a checkerboard. **90g:05065**
Cieslik, Dietmar Das eingeschränkte Steinerproblem. (English summary) [The bounded Steiner problem] **90j:05054**
Colbourn, Charles J. *see* **El-Mallah, Ehab S.**, **90f:05043** *and* **90f:05044**
Duin, C. W. (*with* Volgenant, Anton) Reduction tests for the Steiner problem in graphs. **90e:05026**
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El-Mallah, Ehab S. (*with* Colbourn, Charles J.) Partial k-tree algorithms. **90f:05043**
— (*with* Colbourn, Charles J.) Partitioning the edges of a planar graph into two partial k-trees. **90f:05044**
Engel, Konrad Das Stammbaumproblem. [The family tree problem] **90g:05066**
Er, M. C. Classes of admissible permutations that are generatable by depth-first traversals of ordered trees. **90m:05044**
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Griggs, Jerrold R. (*with* Kleitman, Daniel; Shastri, Aditya) Spanning trees with many leaves in cubic graphs. **90k:05060**
Harary, F. (*with* Schuster, Seymour) Interpolation theorems for invariants of spanning trees of a given graph: covering numbers. **90a:05059**
— Classification of interpolation theorems for spanning trees and other families of spanning subgraphs. **90m:05045**
Hassan, Mohamad On the p-center and p-median problems in cactus graphs. (Russian and Slovak summaries) **90a:05060**
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Li, Hao^4 (*with* Liu, Qun) A problem of tree graph. **90k:05061**
Liu, Bo Lian 2-complementary tree graphs. (Chinese. English summary) **90k:05062**
— Some criteria for (m, n)-trees. (Chinese. English summary) **90h:05042**
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Liu, Ru Ying Integral trees of diameter 5. (Chinese. English summary) **90c:05068**
Liu, Zhen Hong (*with* Wang, Yun) The problem of minimal k-edge disjoint spanning trees with constraints. (Chinese) **90a:05063**
— A solution to one of Kano's conjectures concerning kth maximal spanning trees. **90a:05064**
Mäkinen, Erkki Constructing a binary tree from its traversals. **90g:05067**
Manning, Joseph (*with* Atallah, Mikhail J.) Fast detection and display of symmetry in trees. **90f:05045**
Mayr, Ernst W. (*with* Plaxton, C. Greg) On the spanning trees of weighted graphs. **90j:05055**
Meir, Amram (*with* Moon, J. W.) Recursive trees with no nodes of out-degree one. **90g:05068**
Moon, Douglas I. Maximin center of pendant vertices in a tree network. **90g:05069**
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Nebeský, Ladislav Embedding m-quasistars into n-cubes. **90c:05069**
Oellermann, Ortrud R. *see* **Chartrand, Gary; et al.**, **90c:05067**
Panyukov, A. V. (*with* Pel′tsverger, B. V.) Optimal arrangement of a tree in a finite set. **90b:05044**
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Plantholt, Michael Modelling properties of spanning trees: diameter and distance sum. **90a:05065**
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Ruskey, Frank Solution of some lattice path parity difference recurrence relations using involutions. **90a:05066**
Sabidussi, G. Disentangling pairings in trees. **90d:05079**
Sampathkumar, E. A characterization of trees. **90j:05056**
Sankaran, V. (*with* Krishnamoorthy, V.) Trees with prescribed properties. **90g:05070**
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Shibata, Yukio (*with* Fukue, Susumu) On upper bounds in tree-diameter sets of graphs. **90f:05046**
Swart, Henda C. *see* **Chartrand, Gary; et al.**, **90c:05067**
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Takács, Lajos On Cayley's formula for counting forests. **90m:05047**
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Truszczyński, M. The tree number of a graph with a given girth. **90a:05067**
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Xu, Ji Chao The distribution of parameter values of spanning trees. (Chinese. English summary) **90j:05058**
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Zelinka, Bohdan Partitionability of trees. **90c:05071**
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Aharoni, Ron (*with* Thomassen, Carsten) Infinite, highly connected digraphs with no two arc-disjoint spanning trees. **90d:05148**
Akama, Takehiro *see* **Suzuki, Hitoshi: et al.**, **90m:90123**
Alavi, Yousef An introduction to highly irregular graphs. **90c:05175**
— (*with* Buckley, Fred; Shamula, Marc; Ruiz, Sergio) Highly irregular m-chromatic graphs. **90c:05079**
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Asel′derova, I. M. (*with* Donets, G. A.) Optimal coding of cycles and homogeneous trees. (Russian) **90f:05081**
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Bern, Marshall Faster exact algorithms for Steiner trees in planar networks. **90m:90227**
Bienstock, Daniel (*with* Monma, Clyde L.) Optimal enclosing regions in planar graphs. **90a:90093**
Biggs, Norman Confluence of some presentations associated with graphs. **90d:20058**
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— NC-algorithms for graphs with small treewidth. (*see* **90h:68091**)
Borowiecki, Mieczysław (*with* Patil, H. P.) The Prüfer code for maximal k-degenerate graphs. **90m:05110**
Buckley, Fred (*with* Lewinter, Martin) A note on graphs with diameter-preserving spanning trees. **90a:05159**
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Cartwright, Donald I. (*with* Soardi, P. M.) Convergence to ends for random walks on the automorphism group of a tree. **90f:60137**
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Fanelli, S. (*with* Ghiraldini, A.) On Hamiltonian maximal planar graphs. (Italian. English summary) **90i:05063**
Faudree, R. (*with* Gould, Ronald J.; Jacobson, Michael S.; Schelp, R. H.) Neighborhood unions and Hamiltonian properties in graphs. **90g:05128**
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Fiol, M. A. (*with* Yebra, J. L. A.) Hamiltonian cycles in commutative-step and fixed-step networks. (Spanish. English summary) **90m:05084**
Fleischner, Herbert Some blood, sweat, but no tears in Eulerian graph theory. **90f:05088**
— The prism of a 2-connected, planar, cubic graph is Hamiltonian (a proof independent of the four colour theorem). **90d:05156**
— Elementary proofs of (relatively) recent characterizations of Eulerian graphs. **90f:05089**
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Georges, John P. Non-Hamiltonian bicubic graphs. **90a:05130**
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Knickerbocker, C. J. (*with* Lock, Patti Frazer; Sheard, Michael) The minimum size of graphs Hamiltonian-connected from a vertex. **90f:05091**
Koh, K. M. (*with* Teo, Kok-Leong) The 2-Hamiltonian cubes of graphs. **90m:05085**
Lesniak, Linda (*with* Oellermann, Ortrud R.) An introduction to Eulerian graphs. **90d:05157**
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— A Dirac-type theorem for squares of graphs. **90d:05159**
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— (*with* Broersma, H. J.; Veldman, H. J.) On smallest non-Hamiltonian regular tough graphs. **90m:05067**
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— *see also* **Bauer, Douglas; et al., 90m:05067**
Burzio, Marco (*with* Demaria, Davide Carlo) On a classification of Hamiltonian tournaments. **90a:05092**
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Catlin, Paul A. A reduction method for graphs. **90j:05060**
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Damaschke, Peter The Hamiltonian circuit problem for circle graphs is NP-complete. **90k:68066**
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Flandrin, E. (*with* Fournier, I.; Germa, A.) Circumference and Hamiltonism in $K_{1,3}$-free graphs. **90g:05113**
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Frieze, A. M. On matchings and Hamilton cycles in random graphs. **90k:05125**
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Goddyn, Luis Cycle double covers of graphs with Hamilton paths. **90d:05140**
Grimaldi, Ralph P. Graphs from rings. **90m:05122**
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Halin, Rudolf Unendliche planare Graphen. [Infinite planar graphs] **90h:05044**
Hartman, I. Ben-Arroyo Variations on the Gallai-Milgram theorem. **90a:05122**
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Hough, Tim (*with* Ruskey, Frank) An efficient implementation of the Eades, Hickey, Read adjacent interchange combination generation algorithm. **90d:05008**
Huang, Tsung Chuan (*with* Wang, Ching Fa; Yang, Chu Sing; Li, Chao Yen) The number of spanning trees of the generalized Boolean n-cube network. **90e:90045**
Ihrig, Edwin C. The structure of the symmetry groups of perfect 1-factorizations of K_{2n}. **90j:05104**
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Jung, H. A. Longest *ab*-paths in regular graphs. **90c:05128**
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Sabidussi, G. Disentangling pairings in trees. **90d:05079**
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Schwenk, Allen J. Enumeration of Hamiltonian cycles in certain generalized Petersen graphs. **90d:05123**
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Thomason, Andrew A graph property not satisyfing a "zero-one law". **90e:05051**
Tonoyan, G. P. On Hamiltonian cycles in graphs. (Russian) **90a:05173**
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Voss, Heinz-Jürgen Bridges of longest circuits applied to the circumference of regular graphs. **90f:05084**
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Brouwer, A. E. (*with* Neumaier, A.) The graphs with spectral radius between 2 and $\sqrt{2+\sqrt{5}}$. **90f:05094**
Carlson, David H. (*with* Hershkowitz, Daniel) Nonsingularity criteria for general combinatorially symmetric matrices. **90a:05133**
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— Some graph invariants based in the eigenvectors of the adjacency matrix. (*see* **90h:05002**)
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Majcher, Zofia Graphic matrices. (Russian summary) **90c:05143**
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Shearer, James B. On the distribution of the maximum eigenvalue of graphs. **90f:05097**
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Bien, Frédéric An application of the Ramanujan bounds to communication networks. **90j:90047**
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Bussemaker, F. C. (*with* Haemers, W. H.; Mathon, R.; Wilbrink, H. A.) A (49, 16, 3, 6) strongly regular graph does not exist. **90g:05148**
— (*with* Haemers, W. H.; Seidel, J. J.; Spence, E.) On (v, k, λ) graphs and designs with trivial automorphism group. **90c:05020**
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Duarte, António Leal Construction of acyclic matrices from spectral data. **90e:15007**
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Marušič, Dragan (*with* Scapellato, Raffaele; Zagaglia Salvi, N.) A characterization of particular symmetric (0, 1) matrices. **90f:05042**
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Neumaier, A. Graph representations, two-distance sets, and equiangular lines. **90d:05182**
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Simion, Rodica (*with* Cao, Da Song) Solution to a problem of C. D. Godsil regarding bipartite graphs with unique perfect matching. **90f:05113**
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05C55 Generalized Ramsey theory

Belyĭ, S. B. A problem from Ramsey graph theory. (Russian) **90i:05069**
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— (*with* Erdős, Paul; Faudree, R.; Rousseau, C. C.; Schelp, R. H.) Some complete bipartite graph-tree Ramsey numbers. **90d:05166**
— (*with* Erdős, Paul; Graham, R. L.; Sós, V. T.) Maximal anti-Ramsey graphs and the strong chromatic number. **90c:05146**
— (*with* Erdős, Paul; Faudree, R.; Schelp, R. H.) On the difference between consecutive Ramsey numbers. **90c:05147**
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06Axx Ordered sets

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Winkler, Peter M. Recent results in the theory of random orders. **90a:60018**
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Zelinka, Bohdan A remark on signed posets and signed graphs. **90g:05157**

06A12 Semilattices [see also 20M10]

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Agibalov, G. P. Functional systems on semilattices. (Russian) **90m:06013**
Auinger, Karl Atomistic congruence lattices of semilattices. **90i:06006**
Gould, Matthew *see* **Adams, M. E., 90b:06008**
Igoshin, V. I. An interval approach to prime semilattices. (Russian) **90m:06014**
Jayaram, C. A note on commutative multiplicative semilattices. **90b:06009**
Kim, Sang Mun^2 A sum representation of meet-semilattice. **90d:06009**
Libkin, L. O. (*with* Muchnik, I. B.) Separatory subsemilattices and their properties. (Hungarian summary) **90c:06009**
— (*with* Muchnik, I. B.) On a subsemilattice-lattice of a semilattice. (Hungarian summary) **90c:06011**
— (*with* Muchnik, I. B.; Shvartser, L. V.) Quasilinear monotone systems. **90m:06015**
Muchnik, I. B. *see* **Libkin, L. O., 90c:06009; 90c:06011** *and* **90m:06015**
Shvartser, L. V. *see* **Libkin, L. O.; et al., 90m:06015**
Thakare, N. K. Symmetricity in semilattices. **90m:06016**
van de Vel, M. A Helly property of arcs. **90c:06008**
Wolniewicz, Bogusław On atomic join-semilattices. **90i:06007**
Zhitomirskiĭ, G. I. Semilattices as bases of topological spaces. (Russian) **90j:06008**

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Chajda, Ivan Weak homomorphisms in implication algebra. (Russian and Czech summaries) **90m:08002**
Fleischer, Isidore Erratum: "Abstract Prüfer ideal theory" [J. Algebra **115** (1988), no. 2, 332–339; MR 89e:06015]. **90f:06027**
Higgs, D. A. (*with* Rowe, K. A.) Nuclearity in the category of complete semilattices. **90b:18009**
Huhn, A. P. On the representation of distributive algebraic lattices. II. **90i:06012**
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Idziak, Paweł M. Decision problem for relatively free Brouwerian semilattices. **90k:06011**
Ježek, Jaroslav (*with* Slavík, Václav) Free lattices over halflattices. **90m:06022**
Luo, Jiang Tao Some properties of the algebraic structure of fuzzy sets of type 2. (Chinese. English summary) **90i:03063**
Romanowska, Anna B. (*with* Smith, J. D. H.) On the structure of subalgebra systems of idempotent entropic algebras. **90k:08001**
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Saliĭ, V. N. Partially ordered sets. Semilattices. Generalizations of lattices. (Russian) **90i:06004**
Slavík, Václav *see* **Ježek, Jaroslav, 90m:06022**
Smith, J. D. H. *see* **Romanowska, Anna B., 90k:08001** *and* **90k:08002**

06A15 Galois correspondences, closure operators

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Tolstosheina, S. V. Definability of ordered sets by a partial groupoid of closure operators. (Russian) **90e:06012**

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Liu, Xiao Shi Operation of "interior" and regularity, normality of pointwise topology on completely distributive lattices. **90c:06015**
Skorsky, Martin Regular monoids generated by two Galois connections. **90i:20066**

06A23 Complete lattices, completions

Achache, A. Remarque sur les treillis complets pseudo-complémentés. [Remarks on pseudocomplemented complete lattices] (Not in MR)
Berni-Canani, U. (*with* Borceux, F.; Succi Cruciani, R.; Van den Bossche, G.) Étale maps of quantales. **90m:06017**
Borceux, F. *see* **Berni-Canani, U.; et al., 90m:06017**
Călugăreanu, Grigore G. Cocompact elements in algebraic lattices. **90b:06010**
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— A necessary and sufficient condition for a homomorphism of a complete Boolean lattice to be complete. (Chinese. English summary) **90k:06010**
— Extensions of homomorphisms of Boolean lattices. (Chinese. English summary) **90m:06018**
Peng, Zu Zeng A measure on a molecular lattice. (Chinese. English summary) **90j:06009**
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Van den Bossche, G. *see* **Berni-Canani, U.; et al., 90m:06017**

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Füredi, Zoltán (*with* Kahn, Jeffry N.) Dimension versus size. **90a:06003**
Greco, Gabriele H. On Raney's theorems for completely distributive complete lattices. **90h:06004**
Higgs, D. A. (*with* Rowe, K. A.) Nuclearity in the category of complete semilattices. **90b:18009**
Jayaram, C. A note on commutative multiplicative semilattices. **90b:06009**
Johnson, E. W. (*with* Johnson, Johnny A.) P-lattices as ideal lattices and submodule lattices. **90d:06024**
Johnson, Johnny A. *see* **Johnson, E. W., 90d:06024**
Kahn, Jeffry N. *see* **Füredi, Zoltán, 90a:06003**
Li, Chuan Xiang Reduction of hierarchical structure. **90f:05083**
Meyer, Fernand Romain (*with* Serra, J.) Contrasts and activity lattice. (French and German summaries) **90d:68080**
Monjardet, B. (*with* Wille, Rudolf) On finite lattices generated by their doubly irreducible elements. **90c:06014**
Paseka, Jan Compact convex sets, quantales and C^*-algebras. **90f:46114**
Rowe, K. A. *see* **Higgs, D. A., 90b:18009**
Serra, J. *see* **Meyer, Fernand Romain, 90d:68080**
Simmons, Harold An escalator characterization of finite uniform dimensionality. **90f:06020**
Wille, Rudolf *see* **Monjardet, B., 90c:06014**

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Campbell, Donald E. (*with* Walker, Mark) Maximal elements of weakly continuous relations. **90m:06019**
Derech, V. D. Stable quasi-orders on some semigroups of partial monotone transformations of a finite ordered set. (Russian) (*see* **90d:00034**)
Konstantinidou, Maria Distributive and complemented hyperlattices. (Greek summary) **90e:06013**
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Turinici, M. Metric variants of the Brézis-Browder ordering principle. **90m:06020**
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Burillo López, Pedro J. (*with* González, León A.) Pseudometrics associated with fuzzy relations having weak properties. **90e:03067**
Fitting, Melvin Bilattices and the theory of truth. **90i:03027**
Gensemer, Susan H. On numerical representations of semiorders. **90c:90007**
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Joe, Harry Majorization, entropy and paired comparisons. **90b:62105**
Kreuzer, Alexander Klassifizierung endlicher halbgeordneter Ebenen. (English summary) [Classification of finite partially ordered planes] **90j:51016**
— Zur Einbettung von Inzidenzräumen und angeordneten Räumen. (English summary) [On the embedding of incidence spaces and ordered spaces] **90j:51017**
Kříž, I. Well-quasiordering finite trees with gap-condition. Proof of Harvey Friedman's conjecture. **90f:05128**
Long, John J., Jr. (*with* Wagner, Carl G.) On the distribution of the number of optimal elements for various generalized weak orders. **90d:90007**
Skornyakov, L. A. Invertible elements of semirelatives and relatives. (Russian) **90j:08002**
Suck, Reinhard Conjointness as a derived property. **90m:92101**
Wagner, Carl G. *see* **Long, John J., Jr., 90d:90007**

06Bxx Lattices [see also 03G10]

06B05 Structure theory

Czédli, G. (*with* Lengvárszky, Zs.) Two notes on independent subsets in lattices. **90e:06014**
Edelman, Paul H. (*with* Saks, M. E.) Combinatorial representation and convex dimension of convex geometries. **90f:06013**
Fărcaş, Gh. Treillis non-commutatifs de type (J). [Noncommutative lattices of type (J)] **90a:06008**
Fried, E. (*with* Grätzer, G.) Pasting infinite lattices. **90g:06010**
Grätzer, G. *see* **Fried, E., 90g:06010**
Lengvárszky, Zs. *see* **Czédli, G., 90e:06014**
Libkin, L. O. Separation theorems for lattices. (Hungarian summary) **90c:06010**
Niederle, Josef On completely meet-irreducible elements in compactly generated lattices. **90d:06011**
Saks, M. E. *see* **Edelman, Paul H., 90f:06013**
Stern, Manfred Meet-regular intervals in lattices of finite length. **90m:06021**
Stoenescu, Mihai Sur les treillis à compléments uniques. [On lattices with unique complements] (*see* **90j:00021**)

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Cegielski, Patrick The elementary theory of the natural lattice is finitely axiomatizable. **90j:03068**
Dong, Ke Cheng Graded posets and graded lattices. (Chinese. English summary) **90i:06002**
Erné, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. **90j:08005**

06B10 Ideals, congruence relations

Chajda, Ivan Principal tolerances on lattices. **90j:06010**
Ezzeldin, Mahmoud Untersuchung spezieller Idealverbände. [Investigation of special ideal lattices] **90f:06014**
Grätzer, G. On the complete congruence lattice of a complete lattice with an application to universal algebra. **90d:06012**
— (*with* Lakser, Harry) Congruence lattices, automorphism groups of finite lattices and planarity. **90g:06011**
Lakser, Harry *see* **Grätzer, G., 90g:06011**
Morillon, Marianne Une forme géométrique de l'axiome de l'idéal premier. [A geometric form of the prime ideal axiom] **90f:06015**
Niederle, Josef Completely meet-irreducible tolerances in distributive Noetherian lattices. **90d:06013**
Odintsov, V. A. Congruences on interval lattices. (Russian) **90f:06016**
Rav, Yehuda Semiprime ideals in general lattices. **90e:06015**

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Auinger, Karl Atomistic congruence lattices of semilattices. **90i:06006**
Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (*see* **90d:00034**)
Huhn, A. P. On the representation of distributive algebraic lattices. II. **90i:06012**
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Rav, Yehuda Lattice theoretical equivalences of the ultrafilter principle. **90d:03098**
Swamy, U. Maddana (*with* Viswanadha Raju, D.) A note on maximal ideal spaces of distributive lattices. **90e:06018**
Viswanadha Raju, D. *see* **Swamy, U. Maddana, 90e:06018**
Willard, Ross M_n as a 0, 1-sublattice of Con A does not force the term condition. **90a:08002**
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06B15 Representation theory

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Sauer, Norbert W. (*with* Stone, M. G.) Foliations and applications to structure problems. **90c:08006**
Stone, M. G. *see* **Sauer, Norbert W., 90c:08006**

06B20 Varieties of lattices

Bergman, Clifford Nonaxiomatizability of the amalgamation class of modular lattice varieties. **90j:06011**
Idziak, Paweł M. Decision problem for relatively free Brouwerian semilattices. **90k:06011**
Igoshin, V. I. Classes of lattices and of related algebras. (Russian) **90j:06012**
Omarov, Zh. A. The variety of lattices that is determined by the Ikbalunnisa identity. **90e:06016**

Items with secondary classifications in 06B20

Fried, E. (*with* Grätzer, G.) Pasting infinite lattices. **90g:06010**
Grätzer, G. *see* **Fried, E., 90g:06010**
Jakubík, Ján Retracts of abelian lattice ordered groups. **90h:06009**

06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

Freese, Ralph Finitely presented lattices: canonical forms and the covering relation. **90b:06011**
Ježek, Jaroslav (*with* Slavík, Václav) Free lattices over halflattices. **90m:06022**
Slavík, Václav *see* **Ježek, Jaroslav, 90m:06022**

Items with secondary classifications in 06B25

Igoshin, V. I. Classes of lattices and of related algebras. (Russian) **90j:06012**

06B30 Topological lattices, order topologies [see also 06F30, 54F05, 54H12]

Gierz, Gerhard (*with* Stralka, Albert R.) Modular lattices on the 3-cell are distributive. **90b:06012**
Liu, Xiao Shi The interior operator, regularity and normality of the pointwise topology on a completely distributive lattice. (Chinese. English summary) **90i:06008**
Liu, Ying Ming (*with* Luo, Mao Kang; Peng, Qian) Analytic and topological characterizations of the complete distributivity law. (Chinese) (Not in MR)
Luo, Mao Kang *see* **Liu, Ying Ming; et al.,** (Not in MR)
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Ploščica, Miroslav Topologies compatible with order and separation axioms. **90h:06001**
Stralka, Albert R. *see* **Gierz, Gerhard, 90b:06012**

Items with secondary classifications in 06B30

Forrest, Peter The problem of representing incompletely ordered doxastic systems. **90e:03019**
Venugopalan, P. Priestley spaces. **90k:06012**

06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68N10]

Georgescu, George (*with* Voiculescu, Ioana) Some abstract maximal ideal-like spaces. **90b:06013**
Jung, A. ★ Cartesian closed categories of domains. **90i:06009**
Venugopalan, P. Priestley spaces. **90k:06012**
Voiculescu, Ioana *see* **Georgescu, George, 90b:06013**

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Erné, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. **90j:08005**
Goldie, Charles M. (*with* Resnick, S. I.) Records in a partially ordered set. **90b:60140**
Hrbáček, Karel Convex powerdomains. II. **90g:68084**
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van de Vel, M. A Helly property of arcs. **90c:06008**
Vickers, Steven ★ Topology via logic. **90j:03110**
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Czyzowicz, Jurek Planar lattices and the slope problem. **90d:06014**
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Fan, Lei (*with* Cui, Hong Bin; Zheng, Chong You) Direct product decomposition of molecular lattices and structure of generalized order homomorphisms. **90f:06017**
Fárcaş, Gh. Treillis non-commutatifs de type (G). [Noncommutative lattices of type (G)] **90k:06013**
— Sur les treillis non-commutatifs de type (S). (Romanian summary) [Noncommutative lattices of type (S)] **90g:06012**
— Systèmes d'axiomes pour les treillis non-commutatifs de type (S). (Romanian summary) [Systems of axioms for noncommutative lattices of type (S)] **90j:06013**
Gil'man, E. A. On the problem of the abstract characterization of lattices of universal classes. (Russian) (*see* **90d:00034**)
Marmazeev, V. I. The group of automorphisms of the lattice of convex sublattices. (Russian. English summary) **90f:06018**
Nanda, Sudarsan Fuzzy lattice. (Not in MR)
Nieminen, Juhani Double weak pseudocomplementarity. **90h:06002**
Ušan, Janez On a generalization of lattices. (Russian. Serbo-Croatian summary) **90j:06014**
Willard, Ross A note on indecomposable lattices. **90b:06014**
Wille, Rudolf Lattices in data analysis: how to draw them with a computer. **90k:06014**
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Zheng, Chong You *see* **Fan, Lei; et al., 90f:06017**

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Ambos-Spies, K. (*with* Lerman, M.) Lattice embeddings into the recursively enumerable degrees. II. **90i:03047**
Arocha Pérez, Jorge Luis Antichains in ordered sets. (Spanish. English summary) **90f:06001**
Boguta, B. K. Coverings of varieties and lattice doubling. (Russian) **90m:20070**
Borgatti, Stephen P. (*with* Everett, Martin G.) The class of all regular equivalences: algebraic structure and computation. **90j:92041**
Cornford, James M. A local property associated with the semilattice of compactifications of a space. **90h:54030**
Dogoński, Antoni (*with* Natkaniec, Tomasz) Simple examples of lattices generated by some families of functions. (Polish. English summary) **90d:26021**
Dwinger, Ph. Full and fundamental partial orderings. **90f:06004**
Esteva, Francesc On the structure of intuitionistic algebras with relational probabilities. **90m:03042**
Everett, Martin G. *see* **Borgatti, Stephen P., 90j:92041**
Fofanova, T. S. General lattice theory. (Russian) **90j:06001**
Forney, G. David, Jr. Coset codes. II. Binary lattices and related codes. **90f:94052**
Jakubíková-Studenovská, Danica On the lattice of convex subsets of a partial monounary algebra. **90h:08004**
Lerman, M. *see* **Ambos-Spies, K., 90i:03047**
Murali, V. Fuzzy equivalence relations. **90a:03093**
Natkaniec, Tomasz *see* **Dogoński, Antoni, 90d:26021**
Piron, Constantin Recent developments in quantum mechanics. **90c:81022**
Puczyłowski, Edmund R. (*with* Roszkowska, Ewa) Atoms of lattices of radicals of associative rings. **90e:16009**
Roszkowska, Ewa *see* **Puczyłowski, Edmund R., 90e:16009**
Simion, Rodica Partially ordered sets associated with permutations. **90g:06007**
Stern, Alan S. Sequential theories and infinite distributivity in the lattice of chapters. **90h:03048**
Trillas, Enric Relational probabilities on intuitionistic lattices. **90m:03047**

06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

Chen, Shao Jian The automorphisms of finite modular lattices. (Chinese. English summary) **90k:06015**
Day, Alan (*with* Jónsson, Bjarni) Non-Arguesian configurations and gluings of modular lattices. **90g:06013**

Dudek, Józef A polynomial characterization of nondistributive modular lattices. **90b:06015**
Ezzeldin, Mahmoud Präprimäre Verbände. [Preprimary lattices] **90k:06016**
Fried, E. (*with* Grätzer, G.) Pasting and modular lattices. **90g:06014**
Grätzer, G. *see* **Fried, E., 90g:06014**
Grzeszczuk, Piotr (*with* Okniński, Jan; Puczyłowski, Edmund R.) Relations between some dimensions of modular lattices. **90j:06015**
Jónsson, Bjarni *see* **Day, Alan, 90g:06013**
Okniński, Jan *see* **Grzeszczuk, Piotr; et al., 90j:06015**
Puczyłowski, Edmund R. *see* **Grzeszczuk, Piotr; et al., 90j:06015**
Simmons, Harold An escalator characterization of finite uniform dimensionality. **90f:06020**
— Near-discreteness of modules and spaces as measured by Gabriel and Cantor. **90b:06016**

Items with secondary classifications in 06C05

Bergman, Clifford Nonaxiomatizability of the amalgamation class of modular lattice varieties. **90j:06011**
Fried, E. (*with* Grätzer, G.) Pasting infinite lattices. **90g:06010**
Grätzer, G. *see* **Fried, E., 90g:06010**
Lafuente, Julio Maximal subgroups and the Jordan-Hölder theorem. **90a:20040**

06C10 Semimodular lattices, geometric lattices

Kamara, Morike (*with* Schweigert, D.) Geometric correlation lattices. **90j:06016**
Mnukhin, V. B. Action of groups on lattices and the reconstruction problem. (Russian) **90a:06009**
Reuter, K. The Kurosh-Ore exchange property. **90c:06012**
Schweigert, D. *see* **Kamara, Morike, 90j:06016**
Stern, Manfred On strong semimodular lattices. III. **90c:06013**
— On complemented strong lattices. **90i:06010**
Teo, Kee-Leong Diagrammatic characterizations of semimodular lattices of finite length. **90b:06017**

Items with secondary classifications in 06C10

Bachem, Achim (*with* Wanka, Alfred) Matroids without adjoint. **90j:05048**
Ezzeldin, Mahmoud Untersuchung spezieller Idealverbände. [Investigation of special ideal lattices] **90f:06014**
Stern, Manfred Meet-regular intervals in lattices of finite length. **90m:06021**
Wanka, Alfred *see* **Bachem, Achim, 90j:05048**
Whittle, Geoff Dowling group geometries and the critical problem. **90g:51008**

06C15 Complemented lattices, orthocomplemented lattices

Chevalier, Georges Orthomodular spaces and Baer $*$-rings. **90j:06017**
Godowski, Radosław Stabilized sequences of algebras. **90d:06015**
Gross, Herbert Hilbert lattices with the extension property. **90b:06018**
Navara, Mirko (*with* Pták, Pavel) Almost Boolean orthomodular posets. **90h:06003**
Pták, Pavel *see* **Navara, Mirko, 90h:06003**
Pulmannová, S. Free product of ortholattices. **90e:06017**
Roddy, Michael S. On the word problem for orthocomplemented modular lattices. **90j:06018**
Tkadlec, Josef A note on a function representation of orthomodular posets. (Russian summary) **90i:06011**

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Dvurečenskij, Anatolij States on families of subspaces of pre-Hilbert spaces. **90j:46027**
Giuntini, Roberto (*with* Greuling, Heinz) Toward a formal language for unsharp properties. **90j:81017**
Greuling, Heinz *see* **Giuntini, Roberto, 90j:81017**
Keller, Karsten Sets of states and extreme points. **90c:81014**
Kruszyński, Paweł Vector measures on orthocomplemented lattices. **90a:46104**
Kuck, Conrad ★ Quantum logic is the foundation of mathematics, physics and computer-science. **90k:81020**
Morales, Pedro A noncommutative version of the Brooks-Jewett theorem. **90f:06007**
Navara, Mirko (*with* Rogalewicz, Vladimír) State isomorphism of orthomodular posets and hypergraphs. **90d:03134**
— A note on the axioms of quantum mechanics. (Russian and Czech summaries) **90c:81016**
— (*with* Rogalewicz, Vladimír) Construction of orthomodular lattices with given state spaces. **90c:81017**
Rogalewicz, Vladimír *see* **Navara, Mirko, 90c:81017** *and* **90d:03134**
Rüttimann, Gottfried T. The Jordan-Hahn property. **90g:28010**
Schindler, Christian The Lebesgue decomposition of measures on finite orthomodular posets. **90g:28011**
Stern, Manfred On complemented strong lattices. **90i:06010**
Tamura, Saburo A Gentzen formulation without the cut rule for ortholattices. **90b:03092**

06C20 Complemented modular lattices, continuous geometries

Items with secondary classifications in 06C20

Roddy, Michael S. On the word problem for orthocomplemented modular lattices. **90j:06018**

06C99 None of the above, but in this section

Items with secondary classifications in 06C99

Ber, A. F. (*with* Nasyrov, D. A.) A representation of Stone type for modular logics. (Russian) **90g:03063**
Chajda, Ivan (*with* Rachůnek, Jiří) Forbidden configurations for distributive and modular ordered sets. **90g:06001**
Fofanova, T. S. General lattice theory. (Russian) **90j:06001**
Nasyrov, D. A. *see* **Ber, A. F., 90g:03063**
Rachůnek, Jiří *see* **Chajda, Ivan, 90g:06001**

06Dxx Distributive lattices

Items with secondary classifications in 06Dxx

Draškovičová, Hilda (*with* Katriňák, Tibor; Kolibiar, M.) Distributive lattices, Boolean algebras and related lattices. (Russian) **90k:06001**
Katriňák, Tibor *see* **Draškovičová, Hilda; et al., 90k:06001**
Kolibiar, M. *see* **Draškovičová, Hilda; et al., 90k:06001**

06D05 Structure and representation theory

Boicescu, Vlad About P_2-lattices. (*see* **90j:00021**)
Huhn, A. P. On the representation of distributive algebraic lattices. II. **90i:06012**
— On the representation of distributive algebraic lattices. III. **90i:06013**
Monjardet, B. (*with* Wille, Rudolf) On finite lattices generated by their doubly irreducible elements. **90c:06014**
Swamy, U. Maddana (*with* Viswanadha Raju, D.) A note on maximal ideal spaces of distributive lattices. **90e:06018**
Viswanadha Raju, D. *see* **Swamy, U. Maddana, 90e:06018**
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— (*with* Nipkow, Tobias) Boolean unification—the story so far. **90d:03021**
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Nipkow, Tobias *see* **Martin, Ursula, 90d:03021** *and* **90i:03014**
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Shmerko, V. P. Synthesis of arithmetic forms of Boolean functions by means of the Fourier transform. **90h:94073**
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Jakubík, Ján Sequential convergences in Boolean algebras. **90a:06018**
Jech, Thomas Distributive laws. (*see* **90k:06003**)
Magari, Roberto Boolean algebras with hemimorphisms. (Italian summary) **90b:06026**
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van Douwen, Eric K. Cardinal functions on Boolean spaces. (*see* **90k:06003**)
Dudek, Izabela M. On para-associative BCC-algebras. (Serbo-Croatian summary) **90k:06022**
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Saliĭ, V. N. Almost restrictive semigroups and quasi-Boolean extensions. (Russian) **90k:20099**
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Ursul, M. I. Connectivity in weakly Boolean topological rings. (Russian) **90j:16086**
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06Fxx Ordered structures [see also 22A26, 54F05]

06F05 Ordered semigroups [see also 20Mxx]

Brungs, H.-H. (*with* Törner, G.) A structure theorem for right invariant right holoids. **90b:06027**
Cottin, Ludwig A functional treatment of right invariant right holoids. **90k:06026**
Fleischer, Isidore Erratum: "Abstract Prüfer ideal theory" [*J. Algebra* **115** (1988), no. 2, 332–339; MR 89e:06015]. **90f:06027**
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Kehayopulu, Niovi On weakly prime, weakly semiprime, prime ideal elements in poe-semigroups. **90f:06028**
— On minimal quasi-ideal elements in poe-semigroups. **90m:06029**
Merlier, Thérèse Some properties of lattice ordered Rees matrix semigroups. **90e:06029**
Murata, Kentaro Arithmetic of a commutative lattice-semigroup. **90e:06030**
— On factorization of lattice-ideals in a commutative lattice-semigroup. (*see* **90k:20003**)
Peters, Wolfgang Berechnung der linearen involutorischen Halbgruppen sechster und siebenter Ordnung. [Computing the linear involutory semigroups of sixth and seventh order] **90d:06022**
Pusack, Martin Ordnungstreue Homomorphismen einer kommutativen Halbgruppe in $(\mathbf{R}_+,+,\le)$. (English and Russian summaries) [Order-preserving homomorphisms of a commutative semigroup in $(\mathbf{R}_+,+,\le)$] **90f:06029**
Reddy, Umamaheswara (*with* Hanumanthachari, J.) A note on maximal and minimal elements in totally ordered semirings. **90m:06030**
Törner, G. *see* **Brungs, H.-H., 90b:06027**

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Georgescu, George (*with* Voiculescu, Ioana) Some abstract maximal ideal-like spaces. **90b:06013**
Kobayashi, Yuji (*with* Saito, Tatsuhiko) Compatible orders on a free monoid. (*see* **90k:20003**)
Makaridina, V. A. Orderability of free idempotent semigroups. (Russian) **90d:20102**
Niefield, Susan B. *see* **Rosenthal, Kimmo I., 90g:06017**
Rosenthal, Kimmo I. (*with* Niefield, Susan B.) Connections between ideal theory and the theory of locales. **90g:06017**
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— *see also* **Kobayashi, Yuji,** (**90k:20003**)
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06F10 Noether lattices

Johnson, E. W. Self-duality and co-multiplication lattices. **90d:06023**
— (*with* Johnson, Johnny A.) P-lattices as ideal lattices and submodule lattices. **90d:06024**
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Vilhelm, Václav Primary decompositions. (Czech. English and Russian summaries) **90g:06024**

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Waterhouse, William C. Automorphisms of the Bruhat order on Coxeter groups. **90f:20044**

06F15 Ordered groups [see also 20F60]

Conrad, Paul F. (*with* Martinez, Jorge[2]) Locally finite conditions on lattice-ordered groups. **90j:06028**
Darnel, Michael R. (*with* Glass, A. M. W.; Rhemtulla, Akbar H.) Groups in which every right order is two-sided. **90k:06027**
— (*with* Glass, A. M. W.) Commutator relations and identities in lattice-ordered groups. **90i:06020**
Droste, Manfred Normal subgroups and elementary theories of lattice-ordered groups. **90c:06021**
— (*with* Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. **90j:06029**
Fleischer, Isidore Convergence completion of partially ordered groups. **90e:06031**
Giraudet, Michèle *see* **Droste, Manfred, 90j:06029**
Glass, A. M. W. *see* **Darnel, Michael R., 90i:06020** *and* **90k:06027**
Gurchenkov, S. A. On the theory of varieties of lattice-ordered groups. **90f:06030**
Harminc, Matúš Sequential convergences on cyclically ordered groups. (Russian summary) **90e:06032**
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Hurd, Spencer P. Normal subgroups of periodically o-primitive ordered permutation groups. **90j:06030**
Hursey, Robert J. On nilpotent and polycyclic groups. **90k:06028**
Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) **90d:06025**
— (*with* Pringerová, Gabriela) Radical classes of cyclically ordered groups. (Russian summary) **90g:06026**
— On some types of kernels of a convergence l-group. **90g:06027**
— Direct product decompositions of directed groups. **90g:06028**
— Lexicographic factors of a linearly ordered group. **90k:06029**
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Medvedev, N. Ya. o-approximability of bounded Engel l-groups. **90d:06026**
— Nilpotent lattice-ordered groups. **90b:06028**
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— (*with* Tsinakis, Constantine) The failure of the amalgamation property for representable varieties of l-groups. **90h:06008**
Pringerová, Gabriela *see* **Jakubík, Ján, 90g:06026**
Rachůnek, Jiří Structure spaces of lattice ordered groups. **90i:06022**
Rhemtulla, Akbar H. *see* **Darnel, Michael R.; et al., 90k:06027**
Todorinov, S. A. (*with* Petrova, N. L.) Relatively convex subgroups of ro*-groups. (Bulgarian. English and Russian summaries) **90j:06031**
— (*with* Petrova, N. L.) Directionally nonorderable groups. (Russian) **90d:06028**
Tsinakis, Constantine *see* **Powell, Wayne B., 90h:06008** *and* **90i:06021**

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Feil, Todd *see* **Anderson, Marlow, 90b:06001**
Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) **90j:46062**

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Tanaka, Katsumi[2] On the theory of ordered groups. **90d:03069**
Truss, J. K. Infinite permutation groups. I. Products of conjugacy classes. **90c:20004**
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06F20 Ordered abelian groups, ordered linear spaces [see also 46A40]

Černák, Štefan Cantor extension of an abelian cyclically ordered group. (Russian summary) **90k:06030**
Fleischer, Isidore Functional representation of vector lattices. **90d:06029**
Giraudet, Michèle Cancellation and absorption of lexicographic powers of totally ordered abelian groups. **90e:06033**
Jakubík, Ján Retracts of abelian lattice ordered groups. **90h:06009**
Keller, Karsten Orthoposets of extreme points. (*see* **90g:28001**)
Mączyński, Maciej Generalized Riesz spaces with orthomodular basis. (*see* **90a:00026**)

Items with secondary classifications in 06F20

Anderson, D. D. (*with* Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. **90k:13015**
Basarab, Şerban A. Some model theory for generalized trees. **90f:03068**
Beg, Ismat *see* **Vuza, Dan Tudor; et al., 90h:46011**
Delon, Françoise (*with* Lucas, François) Inclusions et produits de groupes abéliens ordonnés étudiés au premier ordre. [First-order study of inclusions and products of ordered abelian groups] **90f:03067**
Forrest, Peter The problem of representing incompletely ordered doxastic systems. **90e:03019**
Jakubík, Ján On some types of kernels of a convergence l-group. **90g:06027**
Lucas, François *see* **Delon, Françoise, 90f:03067**
Popovici, Ioan Mircea *see* **Vuza, Dan Tudor; et al., 90h:46011**
Powell, Wayne B. (*with* Tsinakis, Constantine) Covers of the variety of abelian l-groups. **90i:06021**
Tsinakis, Constantine *see* **Powell, Wayne B., 90i:06021**
Vuza, Dan Tudor (*with* Popovici, Ioan Mircea; Beg, Ismat) Normal subspaces of directed vector spaces. **90h:46011**
Zafrullah, Muhammad *see* **Anderson, D. D., 90k:13015**

06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16A86.}

Banaschewski, B. The prime ideal theorem and representation of F-rings. **90e:06034**
Feldman, David (*with* Henriksen, M.) f-rings, subdirect products of totally ordered rings, and the prime ideal theorem. **90f:06031a**
— *see also* **Luxemburg, W. A. J., 90f:06031b**
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Larson, Suzanne Pseudoprime l-ideals in a class of f-rings. **90a:06019**
— Minimal convex extensions and intersections of primary l-ideals in f-rings. **90i:06023**
Luxemburg, W. A. J. A remark on a paper by D. Feldman and M. Henriksen concerning the definition of f-rings: "f-rings, subdirect products of totally ordered rings, and the prime ideal theorem" [Nederl. Akad. Wetensch. Indag. Math. **50** (1988), no. 2, 121–126; MR 90f:06031a]. **90f:06031b**
Redfield, R. H. Dual spaces of totally ordered rings. **90a:06020**
Synnatzschke, J. Stetige Elemente bedingt vollständiger l-Algebren. (English summary) [Continuous elements of conditionally complete l-algebras] **90c:06022**

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Al-Ezeh, H. (*with* Natsheh, M. A.; Hussein, D.) Some properties of the ring of continuous functions. **90d:54033**
Basly, M. (*with* Triki, A.) f-algebras in which order ideals are ring ideals. **90e:46008**
Hussein, D. *see* **Al-Ezeh, H.; et al., 90d:54033**
Kalhoff, Franz Über Stellen und Präordnungen von Ternärkörpern. (English summary) [On places and preorderings of ternary fields] **90a:51014**
Madden, James J. Pierce-Birkhoff rings. **90m:14019**
Natsheh, M. A. *see* **Al-Ezeh, H.; et al., 90d:54033**
Triki, A. *see* **Basly, M., 90e:46008**
Wickstead, A. W. Characterisations of semi-prime Archimedean f-algebras. **90d:46015**

06F30 Topological lattices, order topologies [see also 06B30, 54F05, 54H12]

Lawson, Jimmie D. (*with* Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. **90b:06029**
Liu, Xiao Shi Discreteness of lattices. (Chinese) **90i:06024**
Mislove, Michael *see* **Lawson, Jimmie D.; et al., 90b:06029**
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Aharoni, Ron (*with* Brochet, J.-M.; Pouzet, Maurice) The Menger property for infinite ordered sets. **90e:06003b**
Borubaev, A. A. On the theory of ordered spaces. (Russian) **90e:54074**
Brochet, J.-M. (*with* Pouzet, Maurice) Maximal chains and cutsets of an ordered set: a Menger type approach. **90e:06003a**
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Gierz, Gerhard (*with* Stralka, Albert R.) Modular lattices on the 3-cell are distributive. **90b:06012**
Harminc, Matúš Sequential convergences on cyclically ordered groups. (Russian summary) **90e:06032**
He, Ming Frame mappings and point separation axioms of topological spaces. **90h:54026**
Herden, Gerhard Some lifting theorems for continuous utility functions. **90k:90020**
Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) **90d:06025**
Liu, Ying Ming (*with* Luo, Mao Kang; Peng, Qian) Analytic and topological characterizations of the complete distributivity law. (Chinese) (Not in MR)
Luo, Mao Kang *see* **Liu, Ying Ming; et al.**, (Not in MR)
Mańka, R. Turinici's fixed point theorem and the axiom of choice. **90i:04002**
Neumann Lara, V. (*with* Wilson, Richard Gordon) When is a LOTS densely orderable? **90a:54083**
Peng, Qian *see* **Liu, Ying Ming; et al.**, (Not in MR)
Ploščica, Miroslav Topologies compatible with order and separation axioms. **90h:06001**
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Prokop, Frank P. Convergence in neighbourhood lattices. **90k:54006**
Stabakis, J. N. Embeddings of a poset into cut systems of its directed subsets. **90g:06008**
Stralka, Albert R. *see* **Gierz, Gerhard, 90b:06012**
Wang, Guo Jun Pointwise topology on completely distributive lattices. **90e:06021**
Wilson, Richard Gordon *see* **Neumann Lara, V., 90a:54083**

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Bosbach, Bruno Lattice ordered binary systems. **90k:06031**
Konstantinidou, Maria Les résiduels généralisés des éléments $\vee$-irréductibles dans les hypergroupoïdes strictement réticulés. [Generalized residuals of $\vee$-irreducible elements in strictly lattice-ordered hypergroupoids] **90e:06037**
— Certaines conditions d'existence des résiduels généralisés. (English and Italian summaries) [Some existence conditions for generalized residuals] **90e:06036**
— (*with* Serafimidis, K.) Sur les filets des hypergroupes canoniques strictement réticulés. (English summary) [Threads of strictly lattice-ordered canonical hypergroups] **90e:06035**
Liu, Shao Xue The isomorphism problem for partially ordered set algebras. (Chinese. English summary) **90m:06031**
Paseka, Jan Conjunctivity in quantales. **90a:06021**
Schmidt, Klaus D. Minimal clans: a class of ordered partial semigroups including Boolean rings and lattice-ordered groups. **90f:06032**
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Kang, Byung Gai (*with* Park, Sehie) On generalized ordering principles in nonlinear analysis. **90m:54039**
Park, Sehie *see* **Kang, Byung Gai, 90m:54039**
Rödl, V. (*with* Winkler, Peter M.) A Ramsey-type theorem for orderings of a graph. **90g:05135**
Rüttimann, Gottfried T. The approximate Jordan-Hahn decomposition. **90m:46115**
Stoughton, Allen ★ Fully abstract models of programming languages. **90d:68051**
Toffalori, Carlo p-$\aleph_0$-categorical lattice-ordered structures. **90e:03037**
Winkler, Peter M. *see* **Rödl, V., 90g:05135**

08–XX General mathematical systems

08–01 Elementary exposition; textbooks

Ihringer, Thomas ★ Allgemeine Algebra. (German) [Universal algebra] **90b:08001**
Zamyatin, A. P. ★ Многообразия с ограничениями на решетку конгруенций. (Russian) [Varieties with restrictions on the congruence lattice] **90c:08001**

08Axx Universal algebra [see also 03C05]

Items with secondary classifications in 08Axx

Ihringer, Thomas ★ Allgemeine Algebra. (German) [Universal algebra] **90b:08001**

08A02 Relational systems, laws of composition

Dai, An Shun Probability inner product and inner product. (Chinese summary) **90b:08002**
Goleţ, I. A common fixed point theorem in probabilistic metric space and its applications. (Romanian summary) **90c:08002**
— On some common fixed point theorems for a pair of mappings on probabilistic metric spaces. (Romanian summary) (*see* **90d:00043**)
Khovanov, N. V. The universal form of relational systems. **90e:08001**

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Cai, Chang Lin Convergence theorems for a class of probabilistic bounded sequences in probabilistic metric spaces. (Chinese. English summary) **90j:54043**
Chamola, K. P. Fixed points of mappings satisfying a new contraction condition in random normed spaces. **90a:47140**
Che, Su Bing *see* **Zhang, Shi Sheng, 90i:54106**
Craigen, R. (*with* Páles, Z.) The associativity equation revisited. **90g:39019**
Dedeić, R. (*with* Sarapa, N.) On common fixed point theorems for commuting mappings o Menger spaces. (Serbo-Croatian summary) **90a:54106**
— (*with* Sarapa, N.) A common fixed point theorem for three mappings on Menger spaces. **90j:54045**
Dimri, R. C. General fixed point theorems in Menger spaces. **90f:54066**
Ding, Xie Ping Common fixed points for nonexpansive type mappings in convex and probabilistic convex metric spaces. (Serbo-Croatian summary) **90c:54027**

Fang, Jin Xuan Fixed-point theorems for expansive mappings in PM-spaces. (Chinese. English summary) **90h:54053**

— A fixed point theorem for Φ-contractive mappings in probabilistic metric spaces. (Chinese. English summary) **90a:54108**

Guo, Jin Li *see* **Zhang, Shi Sheng, 90i:46086**

Hadžić, Olga Fixed point theorems for multivalued mappings in probabilistic metric spaces with a convex structure. (Serbo-Croatian summary) **90a:47143**

— Fixed point theorems for multivalued mappings in some classes of fuzzy metric spaces. **90d:54083**

Harnau, Walter Ein verallgemeinerter Relationenbegriff für die Algebra der mehrwertigen Logik. II. Relationenpaare. [A generalized concept of relations for the algebra of many-valued logic. II. Pairs of relations] **90b:03093a**

— Ein verallgemeinerter Relationenbegriff für die Algebra der mehrwertigen Logik. III. Beweis. [A generalized concept of relations for the algebra of many-valued logic. III. Proof] **90b:03093b**

Huang, Nan Jing *see* **Zhang, Shi Sheng, 90j:54050**

Kang, Shi Kun (*with* Xiong, Tian Xiang) Convergence theorems for the generalized quasi-Picard iteration of a contraction mapping in probabilistic metric spaces. (Chinese. English summary) **90k:54058**

— *see also* **Zhang, Shi Sheng; et al., 90h:46043; Xiong, Tian Xiang, 90k:54042; Zhang, Shi Sheng, 90k:54043; 90m:46033** *and* (Not in MR)

Kent, D. C. (*with* Richardson, Gary D.) Ordered probabilistic metric spaces. **90b:54022**

Páles, Z. *see* **Craigen, R., 90g:39019**

Pant, B. D. *see* **Singh, S. L., 90d:54095** *and* **90h:54059**

Powers, Robert C. Order automorphisms of spaces of nondecreasing functions. **90f:46042**

Qian, Zi Qiang (*with* Yan, Ge Xing) Topological properties of Menger spaces. (Chinese. English summary) **90g:54025**

Ren, Zhi Ping^{2} *see* **Zhang, Jun Li, 90j:54049**

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Sherwood, H. *see* **Schweizer, B.; et al., 90i:54103**

Singh, S. L. (*with* Pant, B. D.) Coincidence and fixed point theorems for a family of mappings of Menger spaces and extension to uniform spaces. **90d:54095**

— (*with* Pant, B. D.) Common fixed points of a family of mappings in Menger and uniform spaces. **90h:54059**

Stojaković, Mila A common fixed point theorems in probabilistic metric spaces and its applications. (Serbo-Croatian summary) **90d:54097**

Tardiff, R. M. *see* **Schweizer, B.; et al., 90i:54103**

Xiong, Tian Xiang (*with* Kang, Shi Kun) Convergence rate estimation of Picard iteration sequences for a class of contraction mappings in probabilistic metric spaces. (Chinese. English summary) **90k:54042**

— *see also* **Kang, Shi Kun, 90k:54058**

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Ying, Ming Sheng On a class of noncausal triangle functions. **90h:60019**

You, Zhao Yong (*with* Zhu, Lin Hu) Linear topological properties of probabilistic normed spaces. (Chinese. English summary) **90b:46023**

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08A05 Structure theory

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08A30 Subalgebras, congruence relations

Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebras. **90m:08001**

Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (*see* **90d:00034**)

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— Mal′cev conditions for directly decomposable compatible relations. **90i:08006**

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08A35 Automorphisms, endomorphisms

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08A40 Operations, polynomials, primal algebras

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Demetrovics, János (*with* Mal′tsev, I. A.) The structure of the Burle clone on a three-element set. (Russian. English summary) **90i:08002**

— (*with* Rónyai, Lajos) Algebraic properties of crowns and fences. **90k:08003**

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Dudek, Józef Polynomials in idempotent commutative groupoids. **90h:08003**
— The unique minimal clone with three essentially binary operations. **90m:08003**
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Evans, Trevor Embedding and representation theorems for clones and varieties. **90k:08004**
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— Maximal partial clones determined by quasi-diagonal relations. (German and Russian summaries) **90b:08004**
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Lau, Dietlinde Über abgeschlossene Teilmengen von $P_{3,2}$. (English and Russian summaries) [On closed subsets of $P_{3,2}$] **90e:03023**
— Über partielle Funktionenalgebren. [On partial function algebras] **90j:03038**
Movsisyan, Yu. M. Algebras and clones. (Russian. Armenian summary) **90k:08014**
Rosenberg, Ivo G. *see* **Haddad, Lucien, 90k:08006**
Schröder, Bert Über abgeschlossene Mengen von linearen Funktionen in P_{2p} (p prime, $p > 2$). [On closed sets of linear functions in P_{2p} (p prime, $p > 2$)] **90b:03027**
Shapiro, Jack S. Finite algebras with abelian properties. **90b:08011**
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08A50 Word problems [see also 03D40, 20F10]

Epanchintsev, V. I. (*with* Kukin, G. P.) Higman quasivarieties. (Russian) **90c:08008**
Idziak, Paweł M. Varieties with decidable finite algebras. I. Linearity. **90d:08006a**
— Varieties with decidable finite algebras. II. Permutability. **90d:08006b**
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Dehornoy, Patrick Sur la structure des gerbes libres. (English summary) [On free distributive groupoids] **90j:20146**
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Pedersen, John Free products and the word problem. **90a:08005**
Roddy, Michael S. On the word problem for orthocomplemented modular lattices. **90j:06018**
Rosenberg, Ivo G. *see* **Haddad, Lucien, 90k:08006**

08A55 Partial algebras

Evseev, A. E. Prototype completeness of classes of partial groupoids. (Russian) **90d:08007**
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Jakubíková-Studenovská, Danica Convex subsets of partial monounary algebras. **90e:08002**
— On the lattice of convex subsets of a partial monounary algebra. **90h:08004**
Jarzembski, Grzegorz Weak varieties of partial algebras. **90e:08003**
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Adámek, Jiří (*with* Herrlich, Horst; Rosický, J.) Essentially equational categories. (French summary) **90b:18008**
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Tolstosheina, S. V. Definability of ordered sets by a partial groupoid of closure operators. (Russian) **90e:06012**
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08A60 Unary algebras

Adams, M. E. (*with* Sichler, J.) Homomorphisms of unary algebras with a given quotient. **90m:08004**
Bedürftig, Thomas Another characterization of the natural numbers. **90e:08004**
Kalfa, Cornelia Covering relation in the language of mono-unary algebras with at most one constant symbol. **90e:08005**
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Daderkin, D. O. On a class of unoids. (*see* **90k:68007**)
Jakubíková-Studenovská, Danica Convex subsets of partial monounary algebras. **90e:08002**
— On the lattice of convex subsets of a partial monounary algebra. **90h:08004**
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08A65 Infinitary algebras

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Almeida, Jorge The algebra of implicit operations. **90e:08007**
Diener, Karl-Heinz Two new algebraic equivalents to the axiom of choice. **90e:04005**
Grätzer, G. On the complete congruence lattice of a complete lattice with an application to universal algebra. **90d:06012**

08A99 None of the above, but in this section

Both, N. (*with* Purdea, I.) Independence in power algebra of an universal algebra. **90m:08006c**
— *see also* **Purdea, I., 90m:08006a** *and* **90m:08006b**
Burtman, M. I. *see* **Feĭzullaev, R. B., 90m:08005**
Di Nola, Antonio (*with* Gerla, Giangiacomo) Lattice valued algebras. **90h:08005**
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— (*with* Both, N.) Properties of power algebra. **90m:08006b**
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08Bxx Varieties

08B05 Equational logic, Mal'cev (Mal'tsev) conditions

Almeida, Jorge The algebra of implicit operations. **90e:08007**
Bajusz, Tamás (*with* McNulty, George; Szendrei, Ágnes) Lyndon's groupoid is not inherently nonfinitely based. **90m:08007**
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Beĭdar, K. I. (*with* Glavatskiĭ, S. T.; Mikhalëv, A. V.) Varieties of topological Ω-groups. (Russian) **90k:08007**
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Duda, Jaromír Fraser-Horn identities can be written in two variables. **90d:08009**
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Glavatskiĭ, S. T. *see* **Beĭdar, K. I.; et al., 90k:08007**
Graczyńska, Ewa Regular equations and unification theory. **90f:08003**
— On connections between identities and hyperidentities. **90g:08003**
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Mikhalëv, A. V. *see* **Beĭdar, K. I.; et al., 90k:08007**
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— The equational logic for graph algebras. **90f:08005b**
Shapiro, Jack S. Finite algebras with abelian properties. **90b:08011**
Szendrei, Ágnes *see* **Bajusz, Tamás; et al., 90m:08007**
Weaver, G. E. *see* **Hébert, Michel; et al., 90b:08007**
Werner, Heinrich *see* **Baker, Kirby A.; et al., 90a:08004**

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Dudek, Józef (*with* Kisielewicz, Andrzej) On finite models of regular identities. **90m:03059**
Dzhabbarzade, V. M. *see* **Feĭzullaev, R. B.; et al., 90g:08002**
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— (*with* Smith, J. D. H.) Subalgebra systems of idempotent entropic algebras. **90k:08002**
Smith, J. D. H. *see* **Romanowska, Anna B., 90k:08001** *and* **90k:08002**
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08B10 Congruence modularity, congruence distributivity

Bergman, Clifford Another consequence of AP in residually small, congruence modular varieties. **90i:08007**
— (*with* McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. **90f:08006**
Denecke, Klaus Kongruenzregularität und p-determinierte Kongruenzen in Varietäten, die von zweielementigen Algebren erzeugt werden. [Congruence regularity and p-determined congruences in varieties which are generated by two-element algebras] **90f:08007**
McKenzie, R. N. *see* **Bergman, Clifford, 90f:08006**
Pinus, A. G. Congruence-distributive varieties of algebras. (Russian) **90f:08008**
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— Varieties with decidable finite algebras. II. Permutability. **90d:08006b**
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Zamyatin, A. P. ★ Многообразия с ограничениями на решетку конгруенций. (Russian) [Varieties with restrictions on the congruence lattice] **90c:08001**

08B15 Lattices of varieties

Erné, Marcel Weak distributive laws and their role in lattices of congruences and equational theories. **90j:08005**
Pinus, A. G. Coverings in epimorphism skeletons of varieties of algebras. **90k:08008**
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Graczyńska, Ewa On connections between identities and hyperidentities. **90g:08003**
— On a problem of bases for the regular extension of varieties of algebras. **90f:08004**
Hall, T. E. (*with* Johnston, K. G.) The lattice of pseudovarieties of inverse semigroups. **90f:20090**
Johnston, K. G. *see* **Hall, T. E., 90f:20090**
Trotter, P. G. Subdirect decompositions of the lattice of varieties of completely regular semigroups. **90h:20088**
Vernikov, B. M. Dualities in lattices of semigroup varieties. **90h:20090**
Volkov, M. V. Semigroup varieties with a modular lattice of subvarieties. (Russian) **90k:20100**
Weese, Martin Decidable extensions of the theory of Boolean algebras. (*see* **90k:06004**)
Wismath, Shelly L. Hyperidentities for some varieties of semigroups. **90i:20062**

08B20 Free algebras

Berman, Joel Finite algebras with large free spectra. **90e:08008**
Hébert, Michel Generators, indecomposables and free algebras. **90e:08009**
Johnson, David Lawrence (*with* Kim, A. C.) Free Fibonacci algebras. **90i:08008**
Kim, A. C. *see* **Johnson, David Lawrence, 90i:08008**
Seif, Steven A note on free algebras of discriminator algebras. **90k:08009**
Żembery, Ivan Structure of free algebras. **90k:08010**

Items with secondary classifications in 08B20

Aragane, Kenichi *see* **Tabata, Hiroyoshi, (90e:20002)**
Bedürftig, Thomas Another characterization of the natural numbers. **90e:08004**
Choban, M. M. General conditions for the existence of free objects. (Russian. English summary) **90m:18004**
Cīrulis, Jānis Two generalizations of the notion of a polyadic algebra. **90g:03064**
Dudek, Józef Polynomials in idempotent commutative groupoids. **90h:08003**
Guzmán, Fernando (*with* Squier, Craig C.) The algebra of conditional logic. **90m:03107**
Hébert, Michel Sur les algèbres libres pour les classes axiomatiques. (English summary) [Free algebras for axiomatic classes] **90i:08010**
Jarzembski, Grzegorz Lattices of free extensions in categories of partially algebraic structures. **90e:18006**
Manevitz, Larry M. (*with* Rowen, Louis Halle) Freedom via forcing: uniform construction of relatively free or generic structures. **90k:03030**
Pedersen, John Free products and the word problem. **90a:08005**
Rowen, Louis Halle *see* **Manevitz, Larry M., 90k:03030**
Squier, Craig C. *see* **Guzmán, Fernando, 90m:03107**
Tabata, Hiroyoshi (*with* Aragane, Kenichi) Connections between the free structures and the structures provided by McNulty. (*see* **90e:20002**)
Zamyatin, A. P. ★ Многообразия с ограничениями на решетку конгруенций. (Russian) [Varieties with restrictions on the congruence lattice] **90c:08001**

08B25 Products, amalgamated products

Gardner, B. J. Płonka-type sums over free products. **90i:08009**
Idziak, Paweł M. The decision problem for finite algebras from arithmetical varieties with equationally definable principal congruences. **90b:08013**
Pedersen, John Free products and the word problem. **90a:08005**
Płonka, J. On some decomposition of the sum of a direct system of algebras into a subdirect product. **90k:08011**

Items with secondary classifications in 08B25

Bergman, Clifford Another consequence of AP in residually small, congruence modular varieties. **90i:08007**
— (*with* McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. **90f:08006**
McKenzie, R. N. *see* **Bergman, Clifford, 90f:08006**
Vachuska, Colleen Identities on free products of bands. **90d:20103**

08B30 Injectives, projectives

Items with secondary classifications in 08B30

Meskhi, V. Yu. Injectively complete varieties of Heyting algebras with a regular involution. (Russian) **90e:06022**

08B99 None of the above, but in this section

Drenski, Veselin S. Extremal varieties of algebras. I. (Russian) **90e:08010**
— Extremal varieties of algebras. II. (Russian) **90e:08011**
Grätzer, G. (*with* Lakser, Harry) Identities for globals (complex algebras) of algebras. **90k:08012**
Heindorf, Lutz A note on irredundant sets. **90a:08006**
Lakser, Harry *see* **Grätzer, G., 90k:08012**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Movsisyan, Yu. M. Algebras and clones. (Russian. Armenian summary) **90k:08014**

Items with secondary classifications in 08B99

Besolov, O. K. On varieties of strictly regular algebras. I. (Russian) **90a:16009**
Bloom, Stephen L. (*with* Ésik, Z.) Varieties of iteration theories. **90h:68074**
Epanchintsev, V. I. (*with* Kukin, G. P.) Higman quasivarieties. (Russian) **90c:08008**
Ésik, Z. *see* **Bloom, Stephen L., 90h:68074**
Evans, Trevor Embedding and representation theorems for clones and varieties. **90k:08004**
Korczyński, Waldemar An algebraic characterization of concurrent systems. **90f:68054**
Kukin, G. P. *see* **Epanchintsev, V. I., 90c:08008**
Lewin, Renato A. Involutions defined by monadic terms. **90f:08002**
Palyutin, E. A. Spectra of varieties. **90i:03035**
Perkins, Peter Finite axiomatizability for equational theories of computable groupoids. **90h:03019**
Ramalho, Margarita Polynomially equivalent varieties of algebras. (Portuguese) **90b:08005**
Rozenberg, S. M. Varieties of Halmos algebras. (Russian) **90b:03094**

Shabunin, L. V. Decidability of elementary theories of finitely defined algebras of a variety of algebras that is defined by the empty set of identities. **90g:03011**

08Cxx Classes of algebras

08C05 Categories of algebras [see also 18C05]

Bouhoyi, Hilaire Duality of endomorphisms of a universal algebra. (Russian) **90d:08010**
Dăianu, Dan The *a*-category of algebras. (*see* **90j:00021**)
Hébert, Michel Sur les algèbres libres pour les classes axiomatiques. (English summary) [Free algebras for axiomatic classes] **90i:08010**

Items with secondary classifications in 08C05

Adámek, Jiří (*with* Herrlich, Horst; Rosický, J.) Essentially equational categories. (French summary) **90b:18008**
Almeida, Jorge The algebra of implicit operations. **90e:08007**
Burmeister, Peter (*with* Wojdyło, Bolesław) A category theoretical background for homomorphism theorems. **90m:18003**
Guitart, René On the geometry of computations. II. **90g:18001**
Herrlich, Horst *see* **Adámek, Jiří; et al., 90b:18008**
Jarzembski, Grzegorz Lattices of free extensions in categories of partially algebraic structures. **90e:18006**
— Weak varieties of partial algebras. **90e:08003**
Rosický, J. *see* **Adámek, Jiří; et al., 90b:18008**
Trnková, Věra Simultaneous representations in categories. **90f:18001**
Wojdyło, Bolesław *see* **Burmeister, Peter, 90m:18003**
Xiong, Xi Jin Hypercomplex functionals. III. Uniqueness theorem and a class of boundary value problems of a new type. (Chinese. English summary) **90b:30058a**
— Multivariable hypercomplex functionals and their iterated integrals. (Hypercomplex functions. IV). (Chinese. English summary) **90b:30058b**

08C10 Axiomatic model classes [see also 03Cxx, in particular 03C60]

Items with secondary classifications in 08C10

Jarzembski, Grzegorz Weak varieties of partial algebras. **90e:08003**
Shabunin, L. V. Decidability of elementary theories of finitely defined algebras of a variety of algebras that is defined by the empty set of identities. **90g:03011**

08C15 Quasivarieties

Adámek, Jiří How many variables does a quasivariety need? **90m:08008**
Pigozzi, Don Finite basis theorems for relatively congruence-distributive quasivarieties. **90b:08014**

Items with secondary classifications in 08C15

Adams, M. E. (*with* Gould, Matthew) A construction for pseudocomplemented semilattices and two applications. **90b:06008**
Blok, W. J. (*with* Pigozzi, Don) Algebraizable logics. **90d:03140**
Epanchintsev, V. I. (*with* Kukin, G. P.) Higman quasivarieties. (Russian) **90c:08008**
Gould, Matthew *see* **Adams, M. E., 90b:06008**
Hébert, Michel Characterizations of axiomatic categories of models canonically isomorphic to (quasi-)varieties. **90d:03064**
Jarzembski, Grzegorz Weak varieties of partial algebras. **90e:08003**
Kukin, G. P. *see* **Epanchintsev, V. I., 90c:08008**
Pigozzi, Don *see* **Blok, W. J., 90d:03140**

08C99 None of the above, but in this section

Items with secondary classifications in 08C99

Kasymov, Sh. M. On a theory of *n*-Lie algebras. (Russian) **90j:17052**
Orlicki, Andrzej On some problems related to enumerated types of algebras. **90h:03029**
Thompson, Richard J. Noncommutative cylindric algebras and relativizations of cylindric algebras. **90a:03107**

11–XX Number theory

(Guy, Richard K.) *see* **Reviews in number theory**, (Not in MR)

Items listed otherwise than by author

Reviews in number theory ★ Reviews in number theory, 1973–83. Vol. 1a–6a. (Not in MR)

11–01 Elementary exposition; textbooks

Allenby, R. B. J. T. (*with* Redfern, E. J.) ★ Introduction to number theory with computing. **90k:11001**
Apostol, Tom M. ★ Modular functions and Dirichlet series in number theory. **90j:11001**
Burton, David M. ★ Elementary number theory. **90e:11001**
Flath, Daniel E. ★ Introduction to number theory. **90c:11001**
Guy, Richard K. The strong law of small numbers. **90c:11002**
Hewitt, Edwin The riddle of the primes. **90c:11003**
Joshi, V. S. On the teaching of primitive roots. (Not in MR)
Ke, Zhao (*with* Sun, Qi) ★ Shu lun jiangyi, shang ce. (Chinese) [Lectures on number theory. Vol. I] **90c:11004a**
— (*with* Sun, Qi) ★ Shu lun jiangyi, xia ce. (Chinese) [Lectures on number theory. Vol. II] **90c:11004b**
Long, Calvin T. ★ Elementary introduction to number theory. **90k:11002**
Narkiewicz, W. ★ Classical problems in number theory. **90e:11002**
Padberg, Friedhelm ★ Elementare Zahlentheorie. (German) [Elementary number theory] **90f:11001**
Redfern, E. J. *see* **Allenby, R. B. J. T., 90k:11001**
Sivaramakrishnan, R. ★ Classical theory of arithmetic functions. **90a:11001**
Somasundaram, D. Some interesting formulae of Ramanujan. **90b:11001**
Sun, Qi *see* **Ke, Zhao, 90c:11004a** *and* **90c:11004b**

Items with secondary classifications in 11–01

Bingham, N. H. (*with* Goldie, Charles M.; Teugels, Jozef L.) ★ Regular variation. **90i:26003**
Goldie, Charles M. *see* **Bingham, N. H.; et al., 90i:26003**
Meurman, Tom On the Dirichlet divisor problem. (Finnish. English summary) **90h:11096**
Teugels, Jozef L. *see* **Bingham, N. H.; et al., 90i:26003**

11–02 Advanced exposition (research surveys, monographs, etc.)

(Kasparian, Azniv) *see* **Manin, Yu. I., 90b:11002**
Manin, Yu. I. Brouwer Memorial Lecture. (Bulgarian) **90b:11002**
(Penkov, I. B.) *see* **Manin, Yu. I., 90b:11002**

Items with secondary classifications in 11–02

André, Yves ★ *G*-functions and geometry. **90k:11087**
Beukers, F. (*with* Manin, Yu. I.) Diophantine equations. **90h:11019**
Lang, Serge Old and new conjectured Diophantine inequalities. **90k:11032**
Mackey, George W. Induced representations and the applications of harmonic analysis. **90c:22021**
Manin, Yu. I. *see* **Beukers, F., 90h:11019**
Narkiewicz, W. ★ Classical problems in number theory. **90e:11002**
(Ramanujan, Srinivasa) *see* **Waldschmidt, M., 90g:11089**
(Ritter, Jürgen) *see* **Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193**
Waldschmidt, M. Some transcendental aspects of Ramanujan's work. **90g:11089**

Items listed otherwise than by author

Augsburg ★ Representation theory and number theory in connection with the local Langlands conjecture. **90m:11193**
Conference:
  Representation Theory and Number Theory in Connection with the Local Langlands Conjecture ★ Representation theory and number theory in connection with the local Langlands conjecture. **90m:11193**
Contemporary Mathematics ★ Representation theory and number theory in connection with the local Langlands conjecture. **90m:11193**
Representation theory and number theory in connection with the local Langlands conjecture ★ Representation theory and number theory in connection with the local Langlands conjecture. **90m:11193**

11–03 Historical (must also be assigned at least one classification number from Section 01)

Sinha, T. N. Pell's equation: its history and significance. **90g:11001**

Items with secondary classifications in 11–03

(Bohr, Harald) *see* **Kahane, Jean-Pierre, 90k:11116**
(Dirichlet, P. G. Lejeune) *see* **Schubring, Gert, 90j:01024**
(de Fermat, Pierre) *see* **Remorov, P. N., 90e:01023**
Fletcher, Colin R. Fermat's theorem. (French and German summaries) **90g:01012**
Gross, Benedict H. (*with* Tate, J.) Commentary on algebra. **90m:01035**
Hurley, Donal Recent computations of pi. **90e:11194**
Kahane, Jean-Pierre Around Bohr's thesis. **90k:11116**
Luo, Jian Jin Dai Xu numbers. (Chinese) **90i:01004**
Mayberry, John Penn What are numbers? **90g:00015**
Miyake, Katsuya A note on the arithmetic background to Frobenius' theory of group characters. **90k:11152**
Picutti, Ettore Pour l'histoire des sept premiers nombres parfaits. (English and Italian summaries) [Contribution to the history of the first seven perfect numbers] **90i:01006**
Ramachandra, K. Srinivasa Ramanujan (the inventor of the circle method). (22.12.1887 to 26.4.1920.) Inaugural address. **90f:01039**
(Ramanujan, Srinivasa) *see* **Ramachandra, K., 90f:01039**
Remorov, P. N. On the conceptual direction of the works of P. de Fermat. (Russian) **90e:01023**
(Rowe, David E.) *see* **Schubring, Gert, 90j:01024**
Schubring, Gert Dirichlet. Comment on: "Gauss, Dirichlet, and the law of biquadratic reciprocity" [Math. Intelligencer **10** (1988), no. 2, 13–25; MR 89e:01031] by D. E. Rowe. **90j:01024**
Sinha, T. N. Perfect numbers as a source of fundamentals of number theory. **90m:11014**
Tate, J. *see* **Gross, Benedict H., 90m:01035**
Weil, André Prehistory of the zeta-function. **90e:01029**
Wright, Edward Maitland Number theory and other reminiscences of Viscount Cherwell. **90b:01096**

11–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 11–04

Borwein, P. B. (*with* Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^{g_n}$. **90e:11020**
Brillhart, John (*with* Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) ★ Factorizations of $b^n \pm 1$. **90d:11009**
Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) The computation of classical constants. **90m:11206**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90m:11206**
Churchhouse, R. F. Some recent discoveries in number theory and analysis made by the use of a computer. **90c:11093**
Fung, Gilbert W. (*with* Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. **90j:11090**
Lehmer, D. H. *see* **Brillhart, John; et al., 90d:11009**
Loring, Terry A. *see* **Borwein, P. B., 90e:11020**
Saito, Michiyo (*with* Wada, Hideo) Tables of ideal class groups of real quadratic fields. **90a:11122**
Selfridge, J. L. *see* **Brillhart, John; et al., 90d:11009**
Trier, P. E. Pi revisited. **90e:11195**
Tuckerman, Bryant *see* **Brillhart, John; et al., 90d:11009**
Wada, Hideo *see* **Saito, Michiyo, 90a:11122**
Wagstaff, S. S., Jr. *see* **Brillhart, John; et al., 90d:11009**
Williams, Hugh Cowie *see* **Fung, Gilbert W., 90j:11090**

11–06 Proceedings, conferences, etc.

(Adolphson, Alan) *see* **Analytic number theory and Diophantine problems, 90e:11003**
(Alladi, K.) *see* **Number theory, 90d:11003**
(Chudakov, N. G.) *see* **Investigations in number theory, 90h:11002**
(Chudnovsky, David V.) *see* **Number theory, 90h:11004**
(Chudnovsky, Gregory V.) *see* **Number theory, 90h:11004**
(Clozel, Laurent) *see* **Automorphic forms, Shimura varieties, and *L*-functions, 90j:11002** *and* **90j:11003**
(Cohn, Harvey) *see* **Number theory, 90h:11004**
(Conrey, J. Brian) *see* **Analytic number theory and Diophantine problems, 90e:11003**
(De Koninck, Jean-Marie) *see* **Number theory, 90f:11002**
(Ehrenpreis, Leon) *see* **Theta functions—Bowdoin 1987, 90d:11004** *and* **90d:11005**
(Ghosh, Amit) *see* **Analytic number theory and Diophantine problems, 90e:11003**
(Goldstein, Catherine) *see* **Seminar: Number Theory, 90e:11004** *and* **90j:11004**
(Gunning, R. C.) *see* **Theta functions—Bowdoin 1987, 90d:11004** *and* **90d:11005**
(Győry, K.) *see* **Number theory, 90m:11002**
(Halász, G.) *see* **Number theory, 90m:11002**
(Hlawka, Edmund) *see* **Number-theoretical analysis, 90d:11002** *and* **90h:11003**
(Ihara, Yasutaka) *see* **Galois groups over Q, 90d:11001**
(Levesque, Claude) *see* **Number theory, 90f:11002**
(Loxton, J. H.) *see* **Number theory and cryptography, 90m:11003**
(Malyshev, A. V.) *see* **Automorphic functions and number theory, 90h:11001**
(Milne, James S.) *see* **Automorphic forms, Shimura varieties, and *L*-functions, 90j:11002** *and* **90j:11003**
(Nathanson, Melvyn B.) *see* **Number theory, 90h:11004**
(Ribet, K.) *see* **Galois groups over Q, 90d:11001**
(Schlickewei, Hans Peter) *see* **Number theory, 90b:11003**
(Serre, Jean-Pierre) *see* **Galois groups over Q, 90d:11001**
(Wirsing, E.) *see* **Number theory, 90b:11003**
(Yager, Rodney I.) *see* **Analytic number theory and Diophantine problems, 90e:11003**

Items listed otherwise than by author

Algebraic holomorphic functions ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] **90a:11002**
Analytic number theory—recent developments ★ Kaisekisūron—saikin no hatten. (Japanese) [Analytic number theory—recent developments] **90m:11001**
Analytic number theory and Diophantine problems ★ Analytic number theory and Diophantine problems. **90e:11003**
Ann Arbor, MI ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. I. **90j:11002**
— ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. II. **90j:11003**
Automorphic forms, Shimura varieties, and *L*-functions ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. I. **90j:11002**
— ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. II. **90j:11003**
Automorphic functions and number theory ★ Автоморфные функции и теория чисел. (Russian) [Automorphic functions and number theory] **90h:11001**
Berkeley, CA ★ Galois groups over Q. **90d:11001**
Brunswick, ME ★ Theta functions—Bowdoin 1987. Part 1. **90d:11004**
— ★ Theta functions—Bowdoin 1987. Part 2. **90d:11005**
Budapest ★ Number theory. Vol. II. **90m:11002**
Colloquia Mathematica Societatis János Bolyai ★ Number theory. Vol. II. **90m:11002**
Conference:
  Analytic Number Theory and Diophantine Problems ★ Analytic number theory and Diophantine problems. **90e:11003**
  Automorphic Forms, Shimura Varieties, and *L*-Functions ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. I. **90j:11002**
  — ★ Automorphic forms, Shimura varieties, and *L*-functions. Vol. II. **90j:11003**
  Number Theory ★ Number theory. **90b:11003**
  — ★ Théorie des nombres. [Number theory] **90f:11002**
  — ★ Number theory. Vol. II. **90m:11002**
  Ramanujan Centenary ★ Number theory, Madras 1987. **90d:11003**
Galois groups over Q ★ Galois groups over Q. **90d:11001**
Investigations in number theory ★ Исследования по теории чисел. (Russian) [Investigations in number theory] **90h:11002**
Lecture Notes in Mathematics ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] **90h:11003**
— ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] **90d:11002**
— ★ Number theory. **90b:11003**
— ★ Number theory, Madras 1987. **90d:11003**
— ★ Number theory. **90h:11004**
Madras ★ Number theory, Madras 1987. **90d:11003**
Meeting:
  Australian Mathematical Society ★ Number theory and cryptography. **90m:11003**
New York ★ Number theory. **90h:11004**
Number-theoretical analysis ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] **90h:11003**
— ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] **90d:11002**
Number theory ★ Number theory. **90b:11003**
— ★ Number theory, Madras 1987. **90d:11003**
— ★ Théorie des nombres. [Number theory] **90f:11002**
— ★ Number theory. **90h:11004**
— ★ Number theory. Vol. II. **90m:11002**
Number theory and cryptography ★ Number theory and cryptography. **90m:11003**
Paris ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] **90e:11004**
Proceedings of Symposia in Pure Mathematics ★ Theta functions—Bowdoin 1987. Part 1. **90d:11004**
— ★ Theta functions—Bowdoin 1987. Part 2. **90d:11005**
Progress in Mathematics ★ Analytic number theory and Diophantine problems. **90e:11003**
— ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] **90e:11004**
— ★ Séminaire de Théorie des Nombres, Paris 1987–88. (French) [Seminar on Number Theory, Paris 1987–88] **90j:11004**
Quebec, PQ ★ Théorie des nombres. [Number theory] **90f:11002**
Research Institute:
  Theta Functions ★ Theta functions—Bowdoin 1987. Part 1. **90d:11004**
  — ★ Theta functions—Bowdoin 1987. Part 2. **90d:11005**
Seminar:
  Number Theory ★ Séminaire de Théorie des Nombres. 1987–1988. (French) [Seminar on Number Theory. 1987–1988] **90a:11003**
  — ★ Séminaire de Théorie des Nombres, Paris 1985–86. [Seminar on Number Theory, Paris 1985–86] **90e:11004**
  — ★ Number theory. **90h:11004**
  — ★ Séminaire de Théorie des Nombres, Paris 1987–88. (French) [Seminar on Number Theory, Paris 1987–88] **90j:11004**
Stillwater, OK ★ Analytic number theory and Diophantine problems. **90e:11003**
Sydney ★ Number theory and cryptography. **90m:11003**
Symposium:
  Algebraic Holomorphic Functions ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] **90a:11002**
  Analytic Number Theory—Recent Developments ★ Kaisekisūron—saikin no hatten. (Japanese) [Analytic number theory—recent developments] **90m:11001**
Talence ★ Séminaire de Théorie des Nombres. 1987–1988. (French) [Seminar on Number Theory. 1987–1988] **90a:11003**
Théorie des nombres ★ Théorie des nombres. [Number theory] **90f:11002**
Theta functions—Bowdoin 1987 ★ Theta functions—Bowdoin 1987. Part 1. **90d:11004**
— ★ Theta functions—Bowdoin 1987. Part 2. **90d:11005**
Ulm ★ Number theory. **90b:11003**
Workshop:
  Galois Groups over Q and Related Topics ★ Galois groups over Q. **90d:11001**
  Number Theory and Cryptography in Telecommunications ★ Number theory and cryptography. **90m:11003**
Zahlentheoretische Analysis ★ Zahlentheoretische Analysis. (German) [Number-theoretical analysis] **90h:11003**
— ★ Zahlentheoretische Analysis. II. (German) [Number-theoretical analysis. II] **90d:11002**

Items with secondary classifications in 11–06

(Barth, Wolf) *see* **Arithmetic of complex manifolds, 90h:14001**
(Dodson, M. M.) *see* **Number theory and dynamical systems, 90j:58040**
(Hashimoto, Ki-ichiro) *see* **Automorphic forms and geometry of arithmetic varieties, 90k:11043**
(Lange, Herbert) *see* **Arithmetic of complex manifolds, 90h:14001**
(Luck, J. M.) *see* **Number theory and physics, 90m:00039**
(Moussa, P.) *see* **Number theory and physics, 90m:00039**
(Namikawa, Yukihiko) *see* **Automorphic forms and geometry of arithmetic varieties, 90k:11043**
(Narzullaev, Kh. N.) *see* **Problems in algebra and number theory, 90e:00005**
(Vickers, J. A. G.) *see* **Number theory and dynamical systems, 90j:58040**
(Waldschmidt, M.) *see* **Number theory and physics, 90m:00039**

Items listed otherwise than by author

Arithmetic of complex manifolds ★ Arithmetic of complex manifolds. **90h:14001**
Automorphic forms and geometry of arithmetic varieties ★ Automorphic forms and geometry of arithmetic varieties. **90k:11043**
Conference:
  Arithmetic of Complex Manifolds ★ Arithmetic of complex manifolds. **90h:14001**
  Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**
Corvallis, OR ★ Quadratic forms and real algebraic geometry. **90j:14028**
Erlangen ★ Arithmetic of complex manifolds. **90h:14001**
Lecture Notes in Mathematics ★ Arithmetic of complex manifolds. **90h:14001**
Les Houches ★ Number theory and physics. **90m:00039**

Meeting:

Number Theory and Dynamical Systems ★ Number theory and dynamical systems. **90j:58040**

Number theory and dynamical systems ★ Number theory and dynamical systems. **90j:58040**

Number theory and physics ★ Number theory and physics. **90m:00039**

Problems in algebra and number theory ★ Вопросы алгебры и теории чисел. (Russian) [Problems in algebra and number theory] **90e:00005**

Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**

School:

Number Theory and Physics ★ Number theory and physics. **90m:00039**

York ★ Number theory and dynamical systems. **90j:58040**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Adler, Irving Concerning the divisors of N and the exponents they belong to modulo $(N-1)$ or $(N+1)$. **90g:11002**

Dowe, David L. On the existence of sequences of co-prime pairs of integers. **90e:11005**

Kleitman, Daniel *see* **Lemke, Paul, 90a:11004**

Lemke, Paul (*with* Kleitman, Daniel) An addition theorem on the integers modulo n. **90a:11004**

Paltanea, Eugen Chaînes de nombres naturels en rapport avec la divisibilité. [Chains of natural numbers with respect to divisibility] **90m:11004**

Pickert, Günter Zur Siebenerprobe von Lyons. [The casting-out-sevens test of Lyons] **90k:11003**

Qiu, Yong Ping A matrix method and flow chart for finding greatest common divisors. (Chinese) **90g:11003**

Wendel, J. G. Shanks' identity is elementary. **90c:11005**

Items with secondary classifications in 11A05

Beck, István Partial orders and the modular group. **90f:06002**

Beslin, Scott (*with* Ligh, Steve) Greatest common divisor matrices. **90d:15015**

Cobeli, Cristian (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. **90c:11064**

Cohen, G. L. On an integer's infinitary divisors. **90e:11011**

Kleitman, Daniel Divisors without unit-congruent ratios. **90e:05016**

Kuntze, Karlheinz Ein Reduktionsverfahren zur Erzeugung von Teilbarkeitsregeln. [A reduction procedure for the generation of divisibility rules] **90b:11140**

Ligh, Steve *see* **Beslin, Scott, 90d:15015**

Prucnal, Tadeusz A certain Diophantine equation. (Polish) **90c:11017**

Spyropoulos, Konstantine Euler's equation $\varphi(x)=k$ with no solution. **90f:11005**

Vâjâitu, Marian *see* **Cobeli, Cristian; et al., 90c:11064**

Yao, Andrew Chi Chih On selecting the k largest with median tests. **90b:68043**

Zaharescu, Alexandru *see* **Cobeli, Cristian; et al., 90c:11064**

11A07 Congruences; primitive roots; residue systems

Agrawal, M. K. *see* **Parnami, J. C.; et al., 90k:11004**

Bui Minh Phong On super Lucas and super Lehmer pseudoprimes. **90a:11005**

Danešová, Yveta Vector-covering systems with four equal moduli. (Russian and Slovak summaries) **90b:11004**

Dlay, Satnam S. *see* **Gorgui-Naguib, Raouf N., 90a:11006**

Duvall, Paul (*with* Vaughan, Theresa P.) Recursions for Carlitz triples. **90d:11006**

Gillespie, Frank S. A generalization of Fermat's little theorem. **90e:11006**

Gorgui-Naguib, Raouf N. (*with* Dlay, Satnam S.) Properties of the Euler totient function modulo 24 and some of its cryptographic implications. **90a:11006**

Hayashi, E. K. *see* **Howard, F. T., 90m:11005**

Hilton, Peter John (*with* Pedersen, Jean) On a generalization of folding numbers. **90c:11006**

— (*with* Hooper, J.; Pedersen, Jean) On the basic character of residue classes. **90j:11005**

Hooper, J. *see* **Hilton, Peter John; et al., 90j:11005**

Howard, F. T. (*with* Hayashi, E. K.) Congruences for numbers of Ramanujan. **90m:11005**

Ishikawa, Tsuneo On Beukers' conjecture. **90i:11001**

Jaeschke, Gerhard On solving rational congruences. **90c:11007**

Joó, István The number of solutions of the generalized pseudoprime congruence $a^{n-k}\equiv b^{n-k} \pmod{n}$. **90g:11004**

Kingston, J. G. (*with* Synge, J. L.) The sequence of pedal triangles. **90b:11005**

Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] **90g:11005**

Niederreiter, H. On a problem of Kodama concerning the Hasse-Witt matrix and the distribution of residues. **90a:11007**

Parnami, J. C. (*with* Agrawal, M. K.; Rajwade, A. R.) Some linear relations between certain binomial coefficients modulo a prime. **90k:11004**

Pedersen, Jean *see* **Hilton, Peter John, 90c:11006** *and* **90j:11005**

Rajwade, A. R. *see* **Parnami, J. C.; et al., 90k:11004**

Riesel, Hans Some soluble cases of the discrete logarithm problem. **90e:11007**

Schumer, P. (*with* Steinig, J.) On the incongruence of consecutive fourth powers. **90e:11008**

(Simpson, R. J.) *see* **Zeilberger, Doron, 90a:11008**

Smyth, C. J. Congruences for symmetric functions. **90d:11007**

Somer, Lawrence On Fermat d-pseudoprimes. **90j:11006**

Steinig, J. *see* **Schumer, P., 90e:11008**

Sun, Zhi Wei Systems of congruences with multipliers. (Chinese. English summary) **90m:11006**

Synge, J. L. *see* **Kingston, J. G., 90b:11005**

Tu, Pao Shêng A simple method which generates infinitely many congruence identities. **90m:11007**

Vaughan, Theresa P. *see* **Duvall, Paul, 90d:11006**

Yuan, Ping Zhi On the congruence $a^{n-k}\equiv 1 \pmod{n}$. (Chinese. English summary) **90c:11008**

Zeilberger, Doron On a conjecture of R. J. Simpson about exact covering congruences: "Disjoint covering systems of congruences" [Amer. Math. Monthly **94** (1987), no. 9, 865–868; MR 89b:11006]. **90a:11008**

Zhang, Shu Sheng An extension of a theorem of number theory. (Chinese) **90g:11006**

Items with secondary classifications in 11A07

Barcau, Mugurel A sharp estimate of the discriminator. **90m:11010**

Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. **90d:20044**

Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^α. (English summary) [Some remarks on polynomial congruences modulo p^α] **90a:11101**

Cooper, Curtis N. *see* **Kennedy, Robert E., 90d:11015**

Creutzburg, Reiner (*with* Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. **90e:11182**

Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 90d:20044**

Fraenkel, A. S. *see* **Berger, Marc A.; et al., 90d:20044**

Kennedy, Robert E. (*with* Cooper, Curtis N.) Niven repunits and $10^n\equiv 1 \pmod{n}$. **90d:11015**

Qu, Wan Ling A "covering" problem for subsets. (Chinese. English summary) **90d:05073**

Sobirov, M. S. On the expandability of the polynomial $x^p-(x-1)^p-1 \pmod{p}$. (Russian) **90j:11136**

Somer, Lawrence Congruence relations for kth-order linear recurrences. **90c:11012**

Sun, Qi On primitive roots in a finite field. (Chinese. English summary) **90e:11186**

Tasche, Manfred *see* **Creutzburg, Reiner, 90e:11182**

Volodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) **90i:11022**

Waterhouse, William C. The determination of all Carlitz sets. **90j:11025**

Yeung, Kit Ming On congruences for binomial coefficients. **90i:11143**

Zhao, Yong Gan A condition for an algebraic integer β in a quadratic Euclidean field $\mathbf{Q}(\sqrt{d})$ $(d\equiv 3 \bmod 4)$ to have a primitive root. (Chinese. English summary) **90g:11144**

11A15 Power residues, reciprocity

Evans, Ronald Residuacity of primes. **90m:11008**

Helou, Charles On rational reciprocity. **90g:11007**

Lehmer, Emma An indeterminate in number theory. **90d:11008**

Monzingo, M. G. On the sum $\sum_{a=1}^{p-1}(a/p)a$. **90m:11009**

Steenvoorden, L. M. Prime numbers and quadratic residues, a trove in the garden of numbers. (Dutch) **90a:11009**

Items with secondary classifications in 11A15

Granville, Andrew (*with* Shank, H. S.) Defining Bernoulli polynomials in $\mathbf{Z}/p\mathbf{Z}$ (a generic regularity condition). **90f:11015**

Halter-Koch, Franz (*with* Ishii, Noburo) Ring class fields modulo 8 of $\mathbf{Q}(\sqrt{-m})$ and the quartic character of units of $\mathbf{Q}(\sqrt{m})$ for $m\equiv 1 \bmod 8$. **90j:11123**

Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. **90b:11047**

— *see also* **Halter-Koch, Franz, 90j:11123**

Shank, H. S. *see* **Granville, Andrew, 90f:11015**

11A25 Arithmetic functions; related numbers; inversion formulas

Atanassov, Krassimir T. More on the Ψ-function. I, II. **90e:11009**

— Some assertions on φ and σ functions. **90e:11010**

— New integer functions, related to φ and σ functions. **90j:11007**

— Remarks on φ,σ and other functions. **90a:11010**

— (*with* Sándor, József) On some modifications of φ and σ functions. **90f:11003**

— *see also* **Vasilev, Mladen V., 90f:11006**

Balasubramanian, N. On friendly-pairs of arithmetic functions. **90k:11005**

Barcau, Mugurel A sharp estimate of the discriminator. **90m:11010**

Barozzi, Giulio Cesare Highly composite numbers. (Italian) **90h:11005**

Benito Muñoz, Manuel On the cardinality of some finite subsets of the unit square. (Spanish) **90m:11011**

Brillhart, John (*with* Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) ★ Factorizations of $b^n\pm 1$. **90d:11009**

Chidambaraswamy, J. (*with* Krishnaiah, P. V.) On integers n with $\psi_t(n)>\psi_t(m)$ for $m<n$. **90h:11006**

Cohen, G. L. (*with* Segal, S. L.) A note concerning those n for which $\varphi(n)+1$ divides n. **90g:11008**

— On an integer's infinitary divisors. **90e:11011**

Daróczy, Zoltán (*with* Kátai, Imre) On additive functions taking values from a compact group. **90i:11002**

(Delsarte, J.) *see* **Mauclaire, J.-L., 90k:11008**

Eugeni, Franco (*with* Rizzi, Bruno) A new generalization of three identities of Ramanujan and Suryanarayana. **90d:11010**

Fabrykowski, Jacek (*with* Subbarao, M. V.) The maximal order and the average order of multiplicative function $\sigma^{(e)}(n)$. **90m:11012**

Fejes Tóth, László (*with* Sándor, József) An asymptotic formula concerning a generalized Euler function. **90g:11009**

Fonseca, Philippina *see* **Siva Rama Prasad, V., 90i:11008**

Graham, S. W. Unitary perfect numbers with squarefree odd part. **90i:11003**

Hagis, Peter, Jr. Some results concerning exponential divisors. **90d:11011**

— On the equation $M\cdot\varphi(n)=n-1$. **90d:11012**

— Odd nonunitary perfect numbers. **90k:11006**

Hanumanthachari, J. *see* **Reddy, P. V., 90h:11007**

Haukkanen, Pentti Some classes of quasi-fields having isomorphic additive and multiplicative groups. **90e:11012**
— Classical arithmetical identities involving a generalization of Ramanujan's sum. **90e:11013**
— Some generalized totient functions. **90i:11004**
— Arithmetical equations involving semi-multiplicative functions and the Dirichlet convolution. (Italian summary) **90k:11007**
— On the Davison convolution of arithmetical functions. **90j:11008**
— On the Dirichlet series of rational arithmetical functions. **90j:11009**
— Comparison of regular convolutions. **90i:11005**
Hausman, Miriam An arithmetic function and its iterates. **90g:11010**
Heesterbeek, J. A. P. (*with* Schellinx, H. A. J. M.) On sums of remainders and almost perfect numbers. **90f:11004**
Kanold, Hans-Joachim Über "quasi-vollkommene Zahlen". [On quasiperfect numbers] **90a:11011**
Kátai, Imre *see* **Daróczy, Zoltán, 90i:11002**
Kovács, Katalin On the characterization of k-dimensional additive functions. I, II. **90b:11006**
Krishnaiah, P. V. *see* **Chidambaraswamy, J., 90h:11006**
Lehmer, D. H. *see* **Brillhart, John; et al., 90d:11009**
Marcu, Dănuţ An arithmetic equation. **90d:11013**
Mauclaire, J.-L. Comments on an article by J. Delsarte: "Essay on the application of the theory of almost periodic functions to arithmetic" [Ann. Sci. École Norm. Sup. (3) **62** (1945), 185–204; MR **8**, 316]. (French) **90k:11008**
Maxsein, Th. Potenzreihen mit fastgeraden Koeffizienten. [Power series with almost even coefficients] **90g:11011**
McCarthy, Paul J. Products of arithmetical functions and their generating functions. **90e:11014**
Mercier, Armel Une représentation pour la série de Dirichlet engendrée par $f(n^r M)$, où f est multiplicative. [A representation for the Dirichlet series generated by $f(n^r M)$, where f is multiplicative] **90i:11006**
Najar, Rudolph M. Operations on generators of unitary amicable pairs. **90g:11012**
Peretti, A. There are only five Fermat primes. **90j:11010**
Ramamoorthi, P. (*with* Vasu, A. C.; Subrahmanya Sastri, V. V.) On two new analogues of Euler totient. **90j:11011**
Rangamma, M. *see* **Siva Rama Prasad, V., 90i:11009**
Reddy, P. V. (*with* Hanumanthachari, J.) Structure of a class of integers and its applications to certain totients and allied Ramanujan sums. **90h:11007**
Rizzi, Bruno *see* **Eugeni, Franco, 90d:11010**
Rutkowski, Jerzy On Čebyšev inequality for arithmetic functions. **90m:11013**
Sándor, József *see* **Atanassov, Krassimir T., 90f:11003** *and* **Fejes Tóth, László, 90g:11009**
Satyanarayana, B. (*with* Vangipuram, S.) Bounds for $\sigma(N)/N$. **90i:11007**
Schellinx, H. A. J. M. *see* **Heesterbeek, J. A. P., 90f:11004**
Segal, S. L. *see* **Cohen, G. L., 90g:11008**
Selfridge, J. L. *see* **Brillhart, John; et al., 90d:11009**
Sinha, T. N. Perfect numbers as a source of fundamentals of number theory. **90m:11014**
Sita Ramaiah, V. On the existence of unity of Lehmer's ψ-product ring. **90m:11015**
Siva Rama Prasad, V. (*with* Fonseca, Philippina) The solutions of a class of arithmetic equations. **90i:11008**
— (*with* Rangamma, M.) On the forms of n for which $\varphi(n) \mid n-1$. **90i:11009**
Somasundaram, D. A divisor problem of Srinivasa Ramanujan in Notebook 3. **90i:11010**
Spyropoulos, Konstantine Euler's equation $\varphi(x)=k$ with no solution. **90f:11005**
Subbarao, M. V. (*with* Yip, L.-W.) Carmichael's conjecture and some analogues. **90j:11012**
— *see also* **Fabrykowski, Jacek, 90m:11012**
Subrahmanya Sastri, V. V. *see* **Ramamoorthi, P.; et al., 90j:11011**
Thajoddin, S. (*with* Vangipuram, S.) A note on Jordan's totient function. **90a:11012**
Tuckerman, Bryant *see* **Brillhart, John; et al., 90d:11009**
Vangipuram, S. *see* **Thajoddin, S., 90a:11012** *and* **Satyanarayana, B., 90i:11007**
Vasilev, Mladen V. (*with* Atanassov, Krassimir T.) Some identities with double sums. **90f:11006**
Vasu, A. C. *see* **Ramamoorthi, P.; et al., 90j:11011**
Wagstaff, S. S., Jr. *see* **Brillhart, John; et al., 90d:11009**
Yip, L.-W. *see* **Subbarao, M. V., 90j:11012**
Zafrullah, Muhammad On generalised multiplicative functions. **90k:11009**

Items with secondary classifications in 11A25

Atanassov, Krassimir T. (*with* Shannon, A. G.; Clarke, J. H.) A digit sum arithmetic function. **90d:11024**
Clarke, J. H. *see* **Atanassov, Krassimir T.; et al., 90d:11024**
Cooper, Curtis N. *see* **Kennedy, Robert E., 90m:11024**
Hausman, Miriam On norm abundant Gaussian integers. **90e:11156**
Kennedy, Robert E. (*with* Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. **90m:11024**
Kunth, Peter Der topologische Dualraum des Raums B^q der q-fastgeraden zahlentheoretischen Funktionen $(0<q<\infty)$. [The topological dual space of the space B^q of the q-almost even number-theoretic functions $(0<q<\infty)$] **90m:11143**
Lalović, Ilija Möbius functions of partially ordered sets. (Serbo-Croatian) **90h:05008**
Lioen, W. M. *see* **te Riele, Herman; et al., 90h:11111**
Montgomery, Hugh L. Fluctuations in the mean of Euler's phi function. **90e:11138**
Nowak, Werner Georg On Euler's φ-function in quadratic number fields. **90k:11121**
Perelli, A. (*with* Zannier, Umberto) An extremal property of the Möbius function. **90i:11104**
te Riele, Herman (*with* Lioen, W. M.; Winter, Dik) Factoring with the quadratic sieve on large vector computers. **90h:11111**
Sándor, József Some arithmetic inequalities. **90e:11142**
Shannon, A. G. *see* **Atanassov, Krassimir T.; et al., 90d:11024**
Sivaramakrishnan, R. ★ Classical theory of arithmetic functions. **90a:11001**
Spector, Donald Multiplicative functions, Dirichlet convolution, and quantum systems. **90m:82013**
Stein, Alan H. Exponential sums of digit counting functions. **90m:11025**
Winter, Dik *see* **te Riele, Herman; et al., 90h:11111**
Xuan, Ti Zuo Estimates of certain sums involving the reciprocals of the largest prime factors of integers. (Chinese. English summary) **90d:11109**
Yoshida, Tomoyuki Character-theoretic transfer. II. **90d:20019**
— Some transfer theorems for finite groups. **90d:20020**
Zannier, Umberto *see* **Perelli, A., 90i:11104**
Zarzycki, Piotr On a certain additive function on the Gaussian integers. **90h:11097**

11A41 Primes

Cosgrave, John B. A remark on Euclid's proof of the infinitude of primes. **90i:11011**
Cox, David A. ★ Primes of the form x^2+ny^2. **90m:11016**
Iséki, Kiyoshi Smallest and largest primes with some digits. **90a:11013**
Löh, Günter Long chains of nearly doubled primes. **90e:11015**
Luo, Xue Dong A practical sieve algorithm for finding prime numbers. **90b:11007**
Parady, B. K. (*with* Smith, Joel F.; Zarantonello, Sergio E.) Largest known twin primes. **90j:11013**
Sándor, József Über die Folge der Primzahlen. [On the sequence of primes] **90f:11007**
Smith, Joel F. *see* **Parady, B. K.; et al., 90j:11013**
Vaidya, A. M. Bertrand's postulate and some of its consequences. **90m:11017**
Zarantonello, Sergio E. *see* **Parady, B. K.; et al., 90j:11013**

Items with secondary classifications in 11A41

Erdős, Paul (*with* Riesel, Hans) On admissible constellations of consecutive primes. **90b:11145**
Grosswald, Emil Some number theoretical products. **90e:11129**
Iséki, Kiyoshi Special palindromic prime numbers. **90a:11155**
— Palindromic prime numbers from experimental number theory. **90c:11094**
— Palindromic prime numbers from experimental number theory. II. **90c:11095**
Peretti, A. There are only five Fermat primes. **90j:11010**
Ribenboim, P. Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Spanish) **90d:11118**
— ★ The book of prime number records. **90g:11127**
Riesel, Hans *see* **Erdős, Paul, 90b:11145**
Schumer, P. (*with* Steinig, J.) On the incongruence of consecutive fourth powers. **90e:11008**
Steinig, J. *see* **Schumer, P., 90e:11008**
Yokoi, Hideo Some relations among new invariants of prime number p congruent to 1 mod 4. **90b:11107**

11A51 Factorization; primality

Bateman, P. T. (*with* Selfridge, J. L.; Wagstaff, S. S., Jr.) The new Mersenne conjecture. **90c:11009**
— *see also* **Mullin, Albert A., 90f:11008**
Chen, Xie Bin Number-theoretic properties of Lucas numbers and a sufficient condition for primality of a class of numbers. (Chinese) **90e:11016**
Jaeschke, Gerhard The Carmichael numbers to 10^{12}. **90m:11018**
Kang, Shin Won On the primality of the Mersenne number M_p. **90i:11012**
Mullin, Albert A. Letter to the editor: "The new Mersenne conjecture" [Amer. Math. Monthly **96** (1989), no. 2, 125–128; MR 90c:11009] by P. T. Bateman, J. L. Selfridge and S. S. Wagstaff, Jr. **90f:11008**
Selfridge, J. L. *see* **Bateman, P. T.; et al., 90c:11009** *and* **Mullin, Albert A., 90f:11008**
Sun, Qi (*with* Yuan, Ping Zhi) Some problems on powerful numbers. (Chinese. English summary) **90m:11019**
Vallée, Brigitte Factorisation entière par génération quasi-uniforme de petits résidus quadratiques. (English summary) [Integer factoring with quasi-uniform generation of small quadratic residues] **90e:11017**
Wagstaff, S. S., Jr. *see* **Bateman, P. T.; et al., 90c:11009** *and* **Mullin, Albert A., 90f:11008**
Yuan, Ping Zhi *see* **Sun, Qi, 90m:11019**

Items with secondary classifications in 11A51

Bollinger, Richard C. The Mann-Shanks primality criterion in the Pascal-T triangle T_3. **90h:11016**
Davis, James Avery (*with* Holdridge, Diane B.) Factorization of large integers on a massively parallel computer. **90b:11139**
Gurak, S. Cubic and biquadratic pseudoprimes of Lucas type. **90k:11166**
Hewitt, Edwin The riddle of the primes. **90c:11003**
Holdridge, Diane B. *see* **Davis, James Avery, 90b:11139**
Jammalamadaka, S. Rao (*with* Uppuluri, V. R. R.) Is p a prime number? Some probabilistic tests for primality. **90e:11189**
Kim, Su Hee (*with* Pomerance, Carl) The probability that a random probable prime is composite. **90e:11190**
Mihailescu, Preda A primality test using cyclotomic extensions. **90i:11147**
Pomerance, Carl *see* **Kim, Su Hee, 90e:11190**
Uppuluri, V. R. R. *see* **Jammalamadaka, S. Rao, 90e:11189**
Vasilenko, O. N. Current methods for testing for the primality of numbers. A survey. (Russian) **90a:11153**
Yuan, Ping Zhi On the congruence $a^{n-k} \equiv 1 \pmod{n}$. (Chinese. English summary) **90c:11008**

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Achuthan, P. (*with* Ponnuswamy, S.) A theorem of Ramanujan and conversion of continued fractions into power series. **90a:11014**
Andrews, George (*with* Berndt, Bruce C.; Jacobsen, Lisa; Lamphere, Robert L.) Variations on the Rogers-Ramanujan continued fraction in Ramanujan's notebooks. **90m:11020**
Angell, David The limiting behaviour of certain sequences of continued fractions. **90a:11015**

Bedocchi, Edmondo A note on *p*-adic continued fractions. (Italian. English summary) **90d:11014**

Berndt, Bruce C. *see* **Andrews, George; et al., 90m:11020**

Hara, Yuko (*with* Ito, Shunji) On real quadratic fields and periodic expansions. **90m:11021**

Higuchi, Teiichi *see* **Tokuda, Hirotaro; et al., 90a:11016**

Ito, Shunji *see* **Hara, Yuko, 90m:11021**

Jacobsen, Lisa *see* **Andrews, George; et al., 90m:11020**

Knopfmacher, Arnold (*with* Knopfmacher, John) Infinite series representations for complex numbers. **90e:11018**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90e:11018**

Lamphere, Robert L. *see* **Andrews, George; et al., 90m:11020**

Louboutin, Stéphane Une version effective d'un théorème de A. Schinzel sur les longueurs des périodes de certains développements en fractions continues. (English summary) [An effective version of a theorem of A. Schinzel about the length of some continued fractional expansions] **90e:11019**

Ponnuswamy, S. *see* **Achuthan, P., 90a:11014**

Stakhov, S. V. Continued fractions over the quaternion ring of a tetrahedron. (Russian) (*see* **90h:20005**)

Tashiro, Yoshiaki *see* **Tokuda, Hirotaro; et al., 90a:11016**

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Zagier, Don On an approximate identity of Ramanujan. **90c:11010**

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Arnol'd, V. I. *A*-graded algebras and continued fractions. **90h:32025**

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Chen, Wen Chin *see* **Chung, Kuo Liang; et al., 90m:11207**

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Irwin, M. C. Geometry of continued fractions. **90j:11063**

Knopfmacher, Arnold (*with* Knopfmacher, John) Two concrete new constructions of the real numbers. **90k:26003a**

— (*with* Knopfmacher, John) Two constructions of the real numbers via alternating series. **90k:26003b**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90k:26003a** *and* **90k:26003b**

Lin, Fêng Ch'ing *see* **Chung, Kuo Liang; et al., 90m:11207**

Louboutin, Stéphane Continued fractions and real quadratic fields. **90a:11119**

van Ravenstein, Tony The three gap theorem (Steinhaus conjecture). **90a:11076**

Schoißengeier, J. Eine explizite Formel für $\sum_{n\leq N} B_2(\{n\alpha\})$. (English summary) [An explicit formula for $\sum_{n\leq N} B_2(\{n\alpha\})$] **90j:11021**

Wang, Lu Qun The continued fraction representation of solutions to Pell's equation. (Chinese. English summary) **90i:11028**

11A63 Radix representation; digital problems {For metric results, see 11K16.}

Allouche, Jean-Paul (*with* Shallit, Jeffrey) Infinite products associated with counting blocks in binary strings. **90g:11013**

Bicknell-Johnson, Marjorie Retrograde renegades and the Pascal connection: repeating decimals represented by Fibonacci and other sequences appearing from right to left. **90i:11013**

Borwein, P. B. (*with* Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^{g_n}$. **90e:11020**

Cooper, Curtis N. *see* **Kennedy, Robert E., 90d:11015; 90i:11014** *and* **90m:11024**

Drobot, Vladimir *see* **Kennedy, Robert E.; et al., 90i:11014**

Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] **90m:11023**

— (*with* Thomas, Alain) Systemes de numeration et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] **90m:11022**

Frougny, Christiane Linear numeration systems, θ-developments and finite automata. (*see* **90i:68014**)

Hickling, Fred *see* **Kennedy, Robert E.; et al., 90i:11014**

Kennedy, Robert E. (*with* Cooper, Curtis N.) Niven repunits and $10^n \equiv 1 \pmod{n}$. **90d:11015**

— (*with* Cooper, Curtis N.; Drobot, Vladimir; Hickling, Fred) On the natural density of the range of the terminating nines function. **90i:11014**

— (*with* Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. **90m:11024**

Kirschenhofer, P. (*with* Prodinger, H.; Tichy, R. F.) Über die Ziffernsumme natürlicher Zahlen und verwandte Probleme. (English summary) [On the sum of digits of natural numbers and related problems] **90k:11010**

Loring, Terry A. *see* **Borwein, P. B., 90e:11020**

McDaniel, Wayne L. Difference of the digital sums of an integer base *b* and its prime factors. **90e:11021**

— (*with* Yates, Samuel) The sum of digits function and its application to a generalization of the Smith number problem. **90g:11014**

Mignotte, Maurice Sur les entiers qui s'écrivent simplement en différentes bases. [The integers that can be written simply in different bases] **90g:11015**

Pavone, Marco The Cantor set and a geometric construction. **90g:11016**

Prodinger, H. *see* **Kirschenhofer, P.; et al., 90k:11010**

Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] **90g:11017**

Schmidt, Harvey, Jr. Palindromes: density and divisibility. **90a:11017**

Shallit, Jeffrey *see* **Allouche, Jean-Paul, 90g:11013**

Steidl, Gabriele On symmetric radix representation of Gaussian integers. **90i:11015**

Stein, Alan H. Exponential sums of digit counting functions. **90m:11025**

Subrahmanya Sastri, V. V. A note on some results associated with the unique representation of a positive integer in any scale. **90a:11018**

Thomas, Alain *see* **Dumont, Jean-Marie, 90m:11022**

Tichy, R. F. *see* **Kirschenhofer, P.; et al., 90k:11010**

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Zita, K. 1989—mühevoll. [1989—troublesome] (Not in MR)

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Allouche, Jean-Paul (*with* Hajnal, P.; Shallit, Jeffrey) Analysis of an infinite product algorithm. **90f:68073**

Goh, William M. Y. Dynamical representation of real numbers and its universality. **90j:11072**

Hajnal, P. *see* **Allouche, Jean-Paul; et al., 90f:68073**

Hermans, Arnold Verschlüsselung und Entschlüsselung von Nachrichten. [Coding and decoding of information] **90f:94030**

Iséki, Kiyoshi Special palindromic prime numbers. **90a:11155**

Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] **90g:11005**

Loxton, J. H. Automata and transcendence. **90b:11068**

Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 90f:68073**

Shorey, T. N. Integers with identical digits. **90j:11027**

Solinas, Jerome A. On the joint distribution of digital sums. **90m:11142**

11A67 Other representations

Bruckman, Paul S. The generalized Zeckendorf theorems. **90k:11011**

Goetgheluck, Pierre On cubic polynomials giving many primes. **90j:11014**

Horváth, Miklós On additive functions. **90h:11008**

Items with secondary classifications in 11A67

Capocelli, Renato M. A note on Fibonacci trees and the Zeckendorf representation of integers. **90a:11024**

Filipponi, Piero *see* **Freitag, Herta T., 90e:11035**

Freitag, Herta T. (*with* Filipponi, Piero) On the *F*-representation of integral sequences $\{F_n^2/d\}$ and $\{L_n^2/d\}$ where *d* is either a Fibonacci or a Lucas number. **90e:11035**

Honkala, Juha On number systems with negative digits. **90d:68040**

Klement, Heinz Vereinfachte Teilbarkeitskriterien für 4, 8 und 16. [Simplified divisibility criteria for 4, 8 and 16] **90g:11005**

Knopfmacher, Arnold (*with* Knopfmacher, John) A binomial product representation for *p*-adic numbers. **90e:11097**

— (*with* Knopfmacher, John) *p*-adic and non-Archimedean product representations. **90e:11098**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90e:11097** *and* **90e:11098**

Morikawa, Ryozo Disjoint systems of rational Beatty sequences. **90m:11035**

11A99 None of the above, but in this section

Baron, Gerd Ein lineares Programm in der Zahlentheorie. (English summary) [A linear program in number theory] **90k:11012**

Berzsenyi, George *see* **Mootha, Vamsi Krishna, 90e:11023**

Erdős, Paul (*with* Lacampagne, C. B.; Selfridge, J. L.) Prime factors of binomial coefficients and related problems. **90f:11009**

Krasikov, I. How many numbers satisfy the $3X+1$ conjecture? **90k:11013**

Lacampagne, C. B. *see* **Erdős, Paul; et al., 90f:11009**

Mąkowski, Andrzej Remarks on some problems in the elementary theory of numbers. (Russian and Slovak summaries) **90e:11022**

Mootha, Vamsi Krishna (*with* Berzsenyi, George) Characterizations and extendibility of P_t-sets. **90e:11023**

Rawsthorne, Daniel A. How many 1's are needed? **90b:11008**

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Items with secondary classifications in 11A99

Kleinert, Ernst Some remarks on the Chinese remainder theorem. **90i:13003**

Knuth, Donald E. (*with* Wilf, Herbert S.) The power of a prime that divides a generalized binomial coefficient. **90d:11029**

Steidl, Gabriele (*with* Tasche, Manfred) Index transforms for multidimensional DFTs and convolutions. **90m:94015**

Tasche, Manfred *see* **Steidl, Gabriele, 90m:94015**

Wilf, Herbert S. *see* **Knuth, Donald E., 90d:11029**

Wong, W. J. Powers of a prime dividing binomial coefficients. **90d:05011**

11Bxx Sequences and sets

11B05 Density, gaps, topology

Bhramarambica, M. V. S. *see* **Siva Rama Prasad, V., 90h:11010**

Bosznay, Ádám P. On the lower estimation of nonaveraging sets. **90d:11016**

Choate, David On the sum of subsequences. **90e:11024**

Cooper, Curtis N. (*with* Kennedy, Robert E.) Chebyshev's inequality and natural density. **90g:11018**

Daróczy, Zoltán (*with* Kátai, Imre) Interval filling sequences and additive functions. **90a:11019**

— (*with* Kátai, Imre; Szabó, Tamás Zoltán) On completely additive functions related to interval-filling sequences. **90k:11014**

Erdős, Paul (*with* Sárközy, A.; Sós, V. T.) On a conjecture of Roth and some related problems. I. **90d:11017**

Giuliano Antonini, Rita Construction et comparaison de densités arithmétiques. (English and Italian summaries) [Construction and comparison of arithmetical densities] **90e:11025**
Greenberg, Peter (*with* Reséndis, Lino; Rivaud, Juan José) Absolute convergence and asymptotic density. (Spanish) **90d:11018**
Hall, R. R. The distribution of squarefree numbers. **90b:11009**
Hegyvári, N. Some remarks on a problem of Erdős and Graham. **90e:11026**
Kátai, Imre *see* **Daróczy, Zoltán, 90a:11019** *and* **90k:11014**
Kennedy, Robert E. *see* **Cooper, Curtis N., 90g:11018**
Obata, Nobuaki Density of natural numbers and the Lévy group. **90e:11027**
Pollington, Andrew D. On the density of B_2-bases. **90h:11009**
Reséndis, Lino *see* **Greenberg, Peter; et al., 90d:11018**
Rivaud, Juan José *see* **Greenberg, Peter; et al., 90d:11018**
Rzepecka, Genowefa On density of pairs of natural numbers. (Polish summary) **90k:11015**
Šalát, Tibor Convergence of subseries of the harmonic series and asymptotic densities of sets of integers (preliminary announcement). (Russian and Slovak summaries) **90g:11019**
Sárközy, A. *see* **Erdős, Paul; et al., 90d:11017**
Siva Rama Prasad, V. (*with* Bhramarambica, M. V. S.) On the Schnirelmann density of M-free integers. **90h:11010**
Sós, V. T. *see* **Erdős, Paul; et al., 90d:11017**
Szabó, Tamás Zoltán *see* **Daróczy, Zoltán; et al., 90k:11014**

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Bergelson, Vitaly (*with* Hindman, Neil) Density versions of two generalizations of Schur's theorem. **90b:05017**
Erdős, Paul (*with* Tenenbaum, Gérald) Sur les densités de certaines suites d'entiers. [On the densities of certain sequences of integers] **90h:11087**
Hagis, Peter, Jr. Some results concerning exponential divisors. **90d:11011**
Hildebrand, Adolf On integer sets containing strings of consecutive integers. **90h:11012**
Hindman, Neil *see* **Bergelson, Vitaly, 90b:05017**
Mąkowski, Andrzej Remarks on some problems in the elementary theory of numbers. (Russian and Slovak summaries) **90e:11022**
Nathanson, Melvyn B. (*with* Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. **90m:11026**
— (*with* Sárközy, A.) On the maximum density of minimal asymptotic bases. **90a:11021**
Sárközy, A. *see* **Nathanson, Melvyn B., 90a:11021** *and* **90m:11026**
Tenenbaum, Gérald *see* **Erdős, Paul, 90h:11087**
Venturini, G. On the $3x + 1$ problem. **90i:11020**

11B13 Additive bases [see also 05B10]

Alon, Noga (*with* Freiman, G.) On sums of subsets of a set of integers. **90e:11028**
Bačík, Július The decomposition of an interval of natural numbers into four strongly sum-free sets (preliminary announcement). (Russian and Slovak summaries) **90d:11019**
Bailey, Craig (*with* Richter, R. B.) Sum zero (mod n), size n subsets of integers. **90d:11020**
Erdős, Paul Some old and new problems on additive and combinatorial number theory. **90i:11016**
Freiman, G. *see* **Alon, Noga, 90e:11028**
Fried, Katalin Rare bases for finite intervals of integers. **90a:11020**
Grekos, Georges Sur l'ordre d'une base additive. [On the order of an additive basis] **90d:11021**
Hajela, D. Some remarks on $B_h[g]$ sequences. **90d:11022**
Jia, Xing De (*with* Nathanson, Melvyn B.) A simple construction of minimal asymptotic bases. **90g:11020**
— Representatives for finite sets. **90d:11023**
Nathanson, Melvyn B. Combinatorial pairs, and sumsets contained in sequences. **90k:11016**
— Additive problems in combinatorial number theory. **90j:11015**
— (*with* Sárközy, A.) On the maximum density of minimal asymptotic bases. **90a:11021**
— *see also* **Jia, Xing De, 90g:11020**
Richter, R. B. *see* **Bailey, Craig, 90d:11020**
Ruzsa, Imre Z. On a probabilistic method in additive number theory. **90f:11010**
Sárközy, A. *see* **Nathanson, Melvyn B., 90a:11021**
Selmer, Ernst S. Sub-bases of pleasant h-bases. **90i:11017**
Zannier, Umberto On a theorem of Birch concerning sums of distinct integers taken from certain sequences. **90h:11011**

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Crampin, D. J. (*with* Rogers, D. G.) An arithmetic of complete permutations with constraints. II. Case studies. **90j:05011b**
Jungnickel, Dieter (*with* Pott, Alexander) Computational nonexistence results for abelian affine difference sets. **90g:05045**
Kløve, Torleiv Bounds and construction for difference triangle sets. **90g:05046**
Nathanson, Melvyn B. (*with* Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. **90m:11026**
Norman, Robert Z. Don't underestimate the importance of graphs. **90b:05089**
Pott, Alexander *see* **Jungnickel, Dieter, 90g:05045**
Rogers, D. G. An arithmetic of complete permutations with constraints. I. An exposition of the general theory. **90j:05011a**
— *see also* **Crampin, D. J., 90j:05011b**
Sárközy, A. Hybrid problems in number theory. **90m:11137**
— *see also* **Nathanson, Melvyn B., 90m:11026**
Selmer, Ernst S. On regular Frobenius bases. **90e:11038**
Szőnyi, Tamás (*with* Wettl, Ferenc) On complexes in a finite abelian group. I. **90c:20066a**
— (*with* Wettl, Ferenc) On complexes in a finite abelian group. II. **90c:20066b**
Wettl, Ferenc *see* **Szőnyi, Tamás, 90c:20066a** *and* **90c:20066b**

11B25 Arithmetic progressions [see also 11N13]

Bézivin, J.-P. Une généralisation du théorème de Skolem-Mahler-Lech. [A generalization of the Skolem-Mahler-Lech theorem] **90g:11021**
Brown, Tom C. (*with* Freedman, Allen R.) Small sets which meet all the $k(n)$-term arithmetic progressions in the interval $[1, n]$. **90e:11029**
Freedman, Allen R. *see* **Brown, Tom C., 90e:11029**
Greenwell, Raymond N. (*with* Landman, Bruce M.) On the existence of a reasonable upper bound for the van der Waerden numbers. **90b:11010b**
Hildebrand, Adolf On integer sets containing strings of consecutive integers. **90h:11012**
Landman, Bruce M. Generalized van der Waerden numbers. **90b:11010a**
— *see also* **Greenwell, Raymond N., 90b:11010b**
Lefmann, Hanno A note on monoton waves. **90e:11030**
Nathanson, Melvyn B. (*with* Sárközy, A.) Sumsets containing long arithmetic progressions and powers of 2. **90m:11026**
Sárközy, A. *see* **Nathanson, Melvyn B., 90m:11026**
Toki, Keisuke On Hasse-Witt matrices of Fermat varieties. **90e:11031**

Items with secondary classifications in 11B25

Cel, Jarosław Sur l'impossibilité en nombres entiers des progressions arithmétiques de la forme (x^3, y^4, z^3) et (x^4, y^3, z^4) dont les termes sont relativement premiers. (Polish summary) [On the impossibility in integers of arithmetical progressions of the form (x^3, y^4, z^3) and (x^4, y^3, z^4) with coprime terms] **90g:11032**
Nathanson, Melvyn B. Sums of polygonal numbers. **90m:11037**
(**Simpson, R. J.**) *see* **Zeilberger, Doron, 90a:11008**
Tolev, D. I. On the division problem in arithmetic progressions. **90c:11068**
Zeilberger, Doron On a conjecture of R. J. Simpson about exact covering congruences: "Disjoint covering systems of congruences" [Amer. Math. Monthly **94** (1987), no. 9, 865–868; MR 89b:11006]. **90a:11008**

11B34 Representation functions

Jia, Xing De On a combinatorial problem of Erdős and Nathanson. (Chinese) **90i:11018**

Items with secondary classifications in 11B34

Daróczy, Zoltán (*with* Kátai, Imre) Interval filling sequences and additive functions. **90a:11019**
Drimbe, Mihai Onucu Generalization of representation theorem of Erdős and Surányi. **90b:11029**
Kátai, Imre *see* **Daróczy, Zoltán, 90a:11019**

11B37 Recurrences

Atanassov, Krassimir T. (*with* Shannon, A. G.; Clarke, J. H.) A digit sum arithmetic function. **90d:11024**
Bézivin, J.-P. Diviseurs premiers de suites récurrentes non linéaires. (English summary) [Prime divisors of nonlinear recurrent sequences] **90a:11022**
Buzeţeanu, Şerban Linear recurrences for the powers of a recurrent sequence. **90a:11023**
Chang, Hung Chü (*with* Li, Chia Shêng) On a recurrent sequence. **90b:11011**
Clarke, J. H. *see* **Atanassov, Krassimir T.; et al., 90d:11024**
Corley, H. W. The convolved Fibonacci equation. **90f:11011**
Cseh, László (*with* Merényi, Imre) Recurrence relations for a power series. **90c:11011**
Gauthier, N. Derivation of a formula for $\sum r^k x^r$. **90j:11016**
Goldstern, Martin (*with* Tichy, R. F.; Turnwald, Gerhard) Distribution of the ratios of the terms of a linear recurrence. **90d:11025**
Li, Chia Shêng *see* **Chang, Hung Chü, 90b:11011**
Mallows, C. L. Identities satisfied by iterated polynomials and (Q, x)-binomial coefficients. **90e:11032**
Merényi, Imre *see* **Cseh, László, 90c:11011**
Pihko, Jukka On a question of Tverberg. **90i:11019**
Shannon, A. G. *see* **Atanassov, Krassimir T.; et al., 90d:11024**
Shorey, T. N. Ramanujan and binary recursive sequences. **90e:11033**
Shparlinskiĭ, I. E. Distribution of values of recurrent sequences. **90k:11017**
Tichy, R. F. *see* **Goldstern, Martin; et al., 90d:11025**
Turner, John Christopher Note on a family of Fibonacci-like sequences. **90f:11012**
Turnwald, Gerhard Weak uniform distribution of second-order linear recurring sequences. **90k:11018**
— *see also* **Goldstern, Martin; et al., 90d:11025**
Venturini, G. On the $3x + 1$ problem. **90i:11020**
Wolfskill, J. Bounding squares in second order recurrence sequences. **90m:11027**
Yu, Chang An A general formula for the solution of inhomogeneous recurrences of order p. (Chinese) **90e:11034**

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Allouche, Jean-Paul (*with* Hajnal, P.; Shallit, Jeffrey) Analysis of an infinite product algorithm. **90f:68073**
Asveld, Peter R. J. Fibonacci-like differential equations with a polynomial nonhomogeneous part. **90h:34009**
Bennett, Larry *see* **Necochea, Alejandro, 90a:40001**
Bollinger, Richard C. The Mann-Shanks primality criterion in the Pascal-T triangle T_3. **90h:11016**
Brus, Tomek A recurrence formula for the distribution of the Wilcoxon rank sum statistic. **90e:62070**
Bui Minh Phong On super Lucas and super Lehmer pseudoprimes. **90a:11005**
Georghiou, Costas *see* **Philippou, Andreas N., 90g:05018**
Hajnal, P. *see* **Allouche, Jean-Paul; et al., 90f:68073**
Horadam, A. F. *see* **Mahon, J. M., 90m:11030**
Kiss, P. (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. **90j:11060a**
— (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. **90j:11060b**
Mahon, J. M. (*with* Horadam, A. F.) Third-order diagonal functions of Pell polynomials. **90m:11030**

McNeill, R. B. On certain divisibility sequences. **90a:11028**

Nagata, Shuro On computations of partial sums of binomial coefficients and related numbers. **90j:11019**

Necochea, Alejandro (*with* Bennett, Larry) On a certain sequence of quotients of a sequence. **90a:40001**

Philippou, Andreas N. (*with* Georghiou, Costas) Convolutions of Fibonacci-type polynomials of order K and the negative binomial distributions of the same order. **90g:05018**

Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 90f:68073**

Tichy, R. F. *see* **Kiss, P., 90j:11060a** *and* **90j:11060b**

11B39 Fibonacci and Lucas numbers and polynomials

Agarwal, Ashok Kumar[1] Properties of a recurring sequence. **90d:11026**

André-Jeannin, Richard Irrationalité de la somme des inverses de certaines suites récurrentes. (English summary) [The irrationality of the sum of reciprocals in certain recurrent sequences] **90b:11012**

Atanassov, Krassimir T. On a generalization of the Fibonacci sequence in the case of three sequences. **90b:11013**

Bui Minh Phong *see* **Kiss, P., 90j:11017**

Capocelli, Renato M. A note on Fibonacci trees and the Zeckendorf representation of integers. **90a:11024**

Chang, Derek K. On circular Fibonacci binary sequences. **90m:11028**

Dubeau, François On r-generalized Fibonacci numbers. **90g:11022**

Filipponi, Piero *see* **Freitag, Herta T., 90e:11035**

Fishburn, Peter C. (*with* Odlyzko, Andrew M.; Roberts, Fred S.) Two-sided generalized Fibonacci sequences. **90k:11019**

Freitag, Herta T. (*with* Filipponi, Piero) On the F-representation of integral sequences $\{F_n^2/d\}$ and $\{L_n^2/d\}$ where d is either a Fibonacci or a Lucas number. **90e:11035**

Fridy, J. A. (*with* Roberts, Ian T.) On sums of Fibonacci-type series. **90k:11020**

Horadam, A. F. *see* **Mahon, J. M., 90m:11030**

Kiss, P. (*with* Bui Minh Phong) Weakly composite Lucas numbers. **90j:11017**

— (*with* Mátyás, Ferenc) An asymptotic formula for π. **90e:11036**

Le, Mao Hua A necessary and sufficient condition for a class of second-order recurrences to contain squares. (Chinese. English summary) **90m:11029**

Lou, Jørgen Generalization of the Fibonacci sequence. (Danish. English summary) **90k:11021**

Luo, Ming On triangular Fibonacci numbers. **90f:11013**

Mahon, J. M. (*with* Horadam, A. F.) Third-order diagonal functions of Pell polynomials. **90m:11030**

Mátyás, Ferenc *see* **Kiss, P., 90e:11036**

Morrison, John F. Fibonacci-like matrices. **90a:11025**

Odlyzko, Andrew M. *see* **Fishburn, Peter C.; et al., 90k:11019**

Ribenboim, P. Square classes of Fibonacci and Lucas numbers. **90j:11018**

Roberts, Fred S. *see* **Fishburn, Peter C.; et al., 90k:11019**

Roberts, Ian T. *see* **Fridy, J. A., 90k:11020**

Šami, Z. A sequence of numbers $a_{j,n}^m$. (Serbo-Croatian summary) **90f:11014**

Sander, J. W. A remark on a theorem of Weinstein. **90h:11013**

Shallit, Jeffrey A generalization of automatic sequences (extended abstract). (*see* **90i:68014**)

Stakhov, A. P. The golden section in the measurement theory. **90d:11027**

Vajda, Steven ★ Fibonacci & Lucas numbers, and the golden section. **90h:11014**

Zhu, De Gao Fibonacci numbers and GL$(2, F_p)$. (Chinese. English summary) **90m:11031**

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Arney, David C. *see* **Arkin, Joseph; et al., 90g:05064**

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Gurak, S. Cubic and biquadratic pseudoprimes of Lucas type. **90k:11166**

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Mąkowski, Andrzej Stroeker's equation and Fibonacci numbers. **90a:11034**

Mohanty, Shreedhara Prasada *see* **Mohanty, Supriya, 90m:11039**

Mohanty, Supriya (*with* Mohanty, Shreedhara Prasada) Pythagorean numbers. **90m:11039**

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Protasi, M. (*with* Talamo, Maurizio) On the number of arithmetical operations for finding Fibonacci numbers. **90g:68069**

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11B50 Sequences (mod m)

Jacobson, Eliot Almost uniform distribution of the Fibonacci sequence. **90h:11015**

Korec, I. (*with* Znám, Š.) A note on the $3x+1$ problem. **90g:11023**

Kwong, Y. H. Harris Minimum periods of binomial coefficients modulo M. **90i:11021**

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11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$

Strauch, Oto Some applications of Franel's integral. I. (Russian and Slovak summaries) **90d:11028**

11B65 Binomial coefficients; factorials; q-identities

Atanassov, Krassimir T. One extremal problem. IV. **90k:11022**

Bollinger, Richard C. The Mann-Shanks primality criterion in the Pascal-T triangle T_3. **90h:11016**

Chao, Chong-Yun (*with* Zhang, Mou Cheng) On multinomial coefficients modulo a prime. **90c:11013**

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Nagata, Shuro On computations of partial sums of binomial coefficients and related numbers. **90j:11019**

Volodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) **90i:11022**

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Chapman, Scott Integer valued polynomials and almost division algorithms. **90j:11023**

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Denis, R. Y. On certain multiple series and q-identities. **90j:05024**

Garvan, F. G. (*with* Stanton, Dennis) Sieved partition functions and q-binomial coefficients. **90j:11102**

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Kwong, Y. H. Harris Minimum periods of binomial coefficients modulo M. **90i:11021**

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Bhattacharjee, Nil Ratan Extension of Bernoulli and Euler numbers. (Bengali summary) **90d:11030**

Callan, David Letter to the editor: "A new approach to Bernoulli polynomials" [Amer. Math Monthly **95** (1988), no. 10, 905–911; MR 90c:11014] by D. H. Lehmer. **90g:11024**

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Gekeler, Ernst-Ulrich Some new identities for Bernoulli-Carlitz numbers. **90j:11128**
Gould, H. W. (*with* Kerr, W. Y.) Characterization of polynomial systems satisfying generalized convolution differential-difference equations. **90f:34104**
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Ray, Nigel Stirling and Bernoulli numbers for complex oriented homology theory. **90f:55010**
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11B73 Bell and Stirling numbers

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Hayashi, E. K. *see* **Howard, F. T., 90m:11005**
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Kwong, Y. H. Harris Minimum periods of $S(n,k)$ modulo M. **90f:05010**
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Schmidt, Michael *see* **Butzer, P. L.; et al., 90m:33016**
Xu, Li Zhi Theory and application of generalized Stirling number pairs. **90i:05005**

11B75 Other combinatorial number theory

Alon, Noga (*with* Spencer, Joel H.) Ascending waves. **90i:11023**
Engel, Konrad On the Fibonacci number of an $m\times n$ lattice. **90m:11033**
Jia, Xing De On B_6-sequences. (Chinese. English summary) **90j:11022**
Kwong, Y. H. Harris Periodicities of a class of infinite integer sequences modulo M. **90b:11014**
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Turnwald, Gerhard On the nonvanishing of homogeneous product sums. **90h:11018**

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Erdős, Paul Some old and new problems on additive and combinatorial number theory. **90i:11016**
Frankl, Peter (*with* Graham, R. L.; Rödl, V.) On the distribution of monochromatic configurations. **90h:05019**
Graham, R. L. *see* **Frankl, Peter; et al., 90h:05019**
Kleitman, Daniel Divisors without unit-congruent ratios. **90e:05016**
Leth, Steven C. Some nonstandard methods in combinatorial number theory. **90c:03067**
McDaniel, Wayne L. (*with* Yates, Samuel) The sum of digits function and its application to a generalization of the Smith number problem. **90g:11014**
Nathanson, Melvyn B. Additive problems in combinatorial number theory. **90j:11015**
Orlowski, Marian (*with* Pachter, M.) An algorithm for the determination of a longest increasing subsequence in a sequence. **90g:68053**
Pachter, M. *see* **Orlowski, Marian, 90g:68053**
Rödl, V. *see* **Frankl, Peter; et al., 90h:05019**
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11B83 Other special sequences and polynomials

Agarwal, P. K. (*with* Sharir, Micha; Shor, Peter) Sharp upper and lower bounds on the length of general Davenport-Schinzel sequences. **90m:11034**
Chowdhury, M. R. Über die Zahlenfolge $n!+k,\ 2\leq k\leq n$. [On the numerical sequence $n!+k,\ 2\leq k\leq n$] **90g:11028**
Clark, Dean S. (*with* Lewis, James T.) Avoiding-sequences with minimum sum. **90f:11016**
Daróczy, Zoltán (*with* Kátai, Imre) Generalized number systems in the complex plane. **90f:11017**
Di Porto, Adina (*with* Filipponi, Piero) More on the Fibonacci pseudoprimes. **90g:11029**
Duvall, Paul (*with* Vaughan, Theresa P.) Pell polynomials and a conjecture of Mahon and Horadam. **90b:11015**
Eggleton, Roger B. (*with* Guy, Richard K.) Catalan strikes again! How likely is a function to be convex? **90a:11027**
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Joó, István On the rearrangements of numerical sequences. **90k:11023**
Kátai, Imre *see* **Daróczy, Zoltán, 90f:11017**
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McNeill, R. B. On certain divisibility sequences. **90a:11028**
Misiurewicz, M. (*with* Schinzel, A.) On n numbers on a circle. **90i:11024**
Morikawa, Ryozo Disjoint systems of rational Beatty sequences. **90m:11035**
— Disjoint sequences generated by the bracket function. IV. **90m:11036**
Nathanson, Melvyn B. Sums of polygonal numbers. **90m:11037**
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Schissel, Eric Characterizations of three types of completeness. **90k:11024**
Sharir, Micha *see* **Agarwal, P. K.; et al., 90m:11034**
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Alon, Noga (*with* Maass, Wolfgang) Meanders and their applications in lower bounds arguments. **90h:68047**
Bourgain, J. Pointwise ergodic theorems for arithmetic sets. **90k:28030**
Cobeli, Cristian (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. **90c:11064**
Daróczy, Zoltán (*with* Kátai, Imre) On differentiable additive functions. **90a:26007**
Erdős, Paul (*with* Lacampagne, C. B.; Selfridge, J. L.) Prime factors of binomial coefficients and related problems. **90f:11009**
Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k=3$. **90k:05003**
— *see also* **Bourgain, J., 90k:28030**
Gillespie, Frank S. A generalization of Fermat's little theorem. **90e:11006**
Golomb, S. W. Distributions of periods and frequencies of runs in random binary sequences. **90i:60008**
Gouyou-Beauchamps, D. (*with* Vauquelin, Bernard) Deux propriétés combinatoires des nombres de Schröder. (English summary) [Two combinatorial properties of the Schröder numbers] **90b:05009**
Grayson, Daniel R. The arithogeometric mean. **90g:11071**
Horadam, A. F. *see* **Mahon, J. M., 90m:11030**
Horváth, Miklós On additive functions. **90h:11008**
Kátai, Imre *see* **Daróczy, Zoltán, 90a:26007**
Katznelson, Yitzhak *see* **Furstenberg, Hillel, 90k:05003** *and* **Bourgain, J., 90k:28030**
Lacampagne, C. B. *see* **Erdős, Paul; et al., 90f:11009**
de Luca, Aldo (*with* Varricchio, Stefano) Some combinatorial properties of the Thue-Morse sequence and a problem in semigroups. **90k:68090**
Luo, Jian Jin An Tu Ming, the first discoverer of the Catalan numbers. (Chinese. English summary) **90e:01007**
Maass, Wolfgang *see* **Alon, Noga, 90h:68047**
Mahon, J. M. (*with* Horadam, A. F.) Third-order diagonal functions of Pell polynomials. **90m:11030**
(Ming, An Tu) *see* **Luo, Jian Jin, 90e:01007**
Nathanson, Melvyn B. Combinatorial pairs, and sumsets contained in sequences. **90k:11016**
Orazov, M. Lower bounds in additive problems with sparse sequences. I. (Russian. English summary) **90d:11110**
(Ornstein, Donald S.) *see* **Bourgain, J., 90k:28030**
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Varricchio, Stefano *see* **de Luca, Aldo, 90k:68090**
Vauquelin, Bernard *see* **Gouyou-Beauchamps, D., 90b:05009**
Wen, Zhi Xiong *see* **Wen, Zhi Ying, 90j:20140**
Wen, Zhi Ying (*with* Wen, Zhi Xiong) A survey of research on sequences of substitutions. (Chinese. English summary) **90j:20140**
Zaharescu, Alexandru *see* **Cobeli, Cristian; et al., 90c:11064**

11B99 None of the above, but in this section

Obi, E. C. The coefficients of the Rayleigh polynomials. **90d:11031**

Items with secondary classifications in 11B99

Kang, Shin Won On the primality of the Mersenne number M_p. **90i:11012**
Spake, Reuben Semilattice decomposition of the power semigroup of the group of integers. **90a:20126**

11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

Allan, Nelo D. A simple proof of a generalization of Eisenstein's irreducibility criterion. **90d:11032**
Chapman, Scott Integer valued polynomials and almost division algorithms. **90j:11023**

Items with secondary classifications in 11C08

Agarwal, Ashok Kumar^1 Properties of a recurring sequence. **90d:11026**
Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantic deviation from zero. **90b:41010**
Berenstein, Carlos A. (*with* Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] **90d:32007**
Bhatwadekar, S. M. Generalized epimorphism theorem. **90d:13018**
Brownawell, W. Dale Aspects of the Hilbert Nullstellensatz. **90e:12007**
Gilmer, Robert Sets that determine integer-valued polynomials. **90g:11142**
Gross, Fred (*with* Osgood, Charles F.) Diophantine approximation to the value distribution theory of meromorphic functions. **90m:30037**
Le Brigand, D. Polynomial factorization using Brill-Noether algorithm. (French summary) **90m:11200**

Mignotte, Maurice Sur un théorème de M. Langevin. [On a theorem of M. Langevin] **90j:11077**
Narkiewicz, W. Polynomial cycles in algebraic number fields. **90k:11135**
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Yger, Alain *see* **Berenstein, Carlos A., 90d:32007**

11C20 Matrices, determinants [see also 15A36]

Vaserstein, L. N. Noncommutative number theory. **90d:11033**

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Damphousse, Pierre The arithmetic of powers and roots in $Gl_2(C)$ and $Sl_2(C)$. **90j:15034**
Degoli, Lando Solutions for Diophantine equations with the method of cyclic matrices. **90d:11034**
Kaplan, Wilfred On circulants. **90i:15008**
Lankford, Dallas Nonnegative integer basis algorithms for linear equations with integer coefficients. **90c:68039**

11C99 None of the above, but in this section

Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] **90c:11015**
Coster, Matthijs Congruence properties of coefficients of certain algebraic power series. **90b:11016**

11Dxx Diophantine equations [see also 14Gxx]

Beukers, F. (*with* Manin, Yu. I.) Diophantine equations. **90h:11019**
Degoli, Lando Solutions for Diophantine equations with the method of cyclic matrices. **90d:11034**
Manin, Yu. I. *see* **Beukers, F., 90h:11019**
Sun, Qi Some results on Diophantine equations. **90c:11016**

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Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. **90e:11096**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90e:11096**

11D04 Linear equations

Baldisserri, Natalia Extension of results of Sylvester and Lucas to the two-dimensional case. (Italian. English summary) **90i:11025**
Brimkov, Valentin E. A polynomial algorithm for solving a large subclass of linear Diophantine equations in nonnegative integers. **90a:11030**
Dahmen, Wolfgang (*with* Micchelli, Charles A.) The number of solutions to linear Diophantine equations and multivariate splines. **90f:11018**
Flahive, Mary E. Integral solutions of linear systems. **90m:11038**
Krawczyk, Hugo (*with* Paz, Azaria) The Diophantine problem of Frobenius: a close bound. **90e:11037**
Lambert, J.-L. Une borne pour une solution entière positive particulière d'une équation linéaire. (English summary) [A bound for a particular positive integer solution of a linear equation] **90h:11020**
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Nagaraj, M. (*with* Srinivasa Murthy, R.) Properties of tribes of Farey fractions. **90g:11030**
Paz, Azaria *see* **Krawczyk, Hugo, 90e:11037**
Selmer, Ernst S. On regular Frobenius bases. **90e:11038**
Shao, Jia Yu Some computational formulas for the Frobenius numbers. (Chinese. English summary) **90h:11021**
Srinivasa Murthy, R. *see* **Nagaraj, M., 90g:11030**
Sun, Zhi Wei A necessary and sufficient condition for two linear Diophantine equations to have a common solution. (Chinese. English summary) **90i:11026**
Tsang, Kai Man On the linear Diophantine problem of Frobenius. **90b:11017**

Items with secondary classifications in 11D04

Anshel, Michael (*with* Goldfeld, Dorian) Applications of the Hardy-Ramanujan partition theory to linear Diophantine problems. **90i:11115**
Brimkov, Valentin E. Effective algorithms for solving a broad class of linear Diophantine equations in nonnegative integers. (Bulgarian. English summary) **90i:11150**
Clausen, Michael (*with* Fortenbacher, Albrecht) Efficient solution of linear Diophantine equations. **90i:11151**
Everest, G. R. A "Hardy-Littlewood" approach to the S-unit equation. **90g:11124**
Fortenbacher, Albrecht *see* **Clausen, Michael, 90i:11151**
Furst, Merrick L. (*with* Kannan, Ravi) Succinct certificates for almost all subset sum problems. **90i:11148**
Goldfeld, Dorian *see* **Anshel, Michael, 90i:11115**
Hausman, Miriam (*with* Shapiro, Harold N.) On Ramanujan's right triangle conjecture. **90e:11049**
Kannan, Ravi *see* **Furst, Merrick L., 90i:11148**
Khasanov, A. A. (*with* Sheverov, V. G.) A method for solving a system of linear Diophantine equations with constraints on the variables. (Russian) **90f:90096**
Liu, Ming Chit (*with* Tsang, Kai Man) Small prime solutions of linear equations. **90i:11112**
Schoch, Manfred An investigation to the Frobenius problem. **90f:90099**
Shapiro, Harold N. *see* **Hausman, Miriam, 90e:11049**
Sheverov, V. G. *see* **Khasanov, A. A., 90f:90096**
Tsang, Kai Man *see* **Liu, Ming Chit, 90i:11112**
Zeilberger, Doron A combinatorial problem that arose in biophysics. **90g:05022**

11D09 Quadratic and bilinear equations

Arpaia, Pasquale J. *see* **Cass, Daniel, 90h:11022**
Bernstein, Leon On primitive Pythagorean triangles with equal perimeters. **90a:11031**
Cao, Zhen Fu Integral trees of diameter R $(3 \leq R \leq 6)$. (Chinese. English summary) **90e:11039**
Cass, Daniel (*with* Arpaia, Pasquale J.) Matrix generation of Pythagorean n-tuples. **90h:11022**
Cohen, Edward L. On Diophantine equations of the form $x^2 - Dy^2 = 2z^2$. **90b:11018**
Cremona, J. E. (*with* Odoni, R. W. K.) Some density results for negative Pell equations; an application of graph theory. **90b:11019**
Graham, George P. (*with* Roberts, C. E.) A Diophantine equation from calculus. **90h:11023**
Liebeck, Hans *see* **Osborne, Anthony, 90d:11035**
Menzer, Hartmut *see* **Müller, Wolfgang^2; et al., 90b:11020**
Metzler, Hans Über die Anzahl der Gitterpunkte auf der Kreislinie mit $x^2 + y^2 = z$. [On the number of lattice points on the circle with $x^2 + y^2 = z$] **90k:11025**
Mohanty, Shreedhara Prasada *see* **Mohanty, Supriya, 90m:11039**
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Roberts, C. E. *see* **Graham, George P., 90h:11023**
Singh, Raj Narayan Pythagoreanism as a source of many Diophantine problems. **90i:11027**
Singh, Sahib A Diophantine equation with generalization. **90j:11024**
Wang, Lu Qun The continued fraction representation of solutions to Pell's equation. (Chinese. English summary) **90i:11028**
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Williams, Kenneth S. On the size of a solution of Legendre's equation. **90d:11036**
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11D25 Cubic and quartic equations

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— (*with* Guy, Richard K.) The delta-lambda configurations in tiling the square. **90g:11031**
— The equation $xyz = x + y + z = 1$ in integers of a cubic field. **90i:11029**
Cao, Yu Shu On the Diophantine equations $x^3 \pm 27 = Dy^2$. (Chinese. English summary) **90d:11037**
Cao, Zhen Fu Mordell's problem on unit fractions. (Chinese. English summary) **90a:11032**
— A study of some Diophantine equations. (Chinese. English summary) **90k:11026**
Cel, Jarosław Sur l'impossibilité en nombres entiers des progressions arithmétiques de la forme (x^3, y^4, z^3) et (x^4, y^3, z^4) dont les termes sont relativement premiers. (Polish summary) [On the impossibility in integers of arithmetical progressions of the form (x^3, y^4, z^3) and (x^4, y^3, z^4) with coprime terms] **90g:11032**
Guy, Richard K. *see* **Bremner, Andrew, 90g:11031**
Lange, Gerhard Die diophantische Gleichung $a^3 + b^3 = \alpha^3 + \beta^3$. [The Diophantine equation $a^3 + b^3 = \alpha^3 + \beta^3$] **90b:11021**
Le, Mao Hua A note on the Diophantine equation $x^{2p} - Dy^2 = 1$. **90a:11033**
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Pethő, Attila On the representation of 1 by binary cubic forms with positive discriminant. **90k:11027**
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Singh, Raj Narayan The Diophantine equation $y^2 = Dx^4 + 1$. **90i:11030**
Sinha, T. N. (*with* Singh, M. M.) Some quartic equations with only trivial solutions. **90e:11042**
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Tzanakis, N. (*with* de Weger, B. M. M.) On the practical solution of the Thue equation. **90c:11018**

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Gaál, István (*with* Schulte, N.) Computing all power integral bases of cubic fields. **90b:11108**
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Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (*see* **90j:11004**)
Iséki, Kiyoshi On equations $2x^3+x^2+A=\Box$ from experimental number theory. **90m:11204**
Kratko, M. I. (*with* Yanovich, I. I.) A Diophantine Markov equation and its generalizations. (Russian) **90m:11101**
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Masser, D. W. Counting points of small height on elliptic curves. (French summary) **90k:11068**
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Murty, M. Ram Recent developments in elliptic curves. **90f:11036**
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Shioda, Tetsuji The Galois representation of type E_8 arising from certain Mordell-Weil groups. **90f:11037**
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Sun, Qi (*with* Xiao, Rong) Two kinds of elliptic curves over F_q used to set up cryptosystems. (Chinese. English summary) **90m:11199**
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Xiao, Rong *see* **Sun, Qi, 90m:11199**
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11D41 Higher degree equations; Fermat's equation

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Belotserkovskiĭ, Yu. F. Effective analysis of a new class of Diophantine equations. (Russian. English summary) **90d:11038**
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Bourque, Keith *see* **Ligh, Steve, 90i:11032**
Brindza, B. On the equation $f(x)=y^m$ over finitely generated domains. **90i:11031**
Bui Minh Phong *see* **Joó, István, 90h:11025**
Cao, Zhen Fu On the Diophantine equation $x^{2n}-\mathscr{D}y^2=1$. (Chinese summary) **90g:11034**
Cel, Jarosław Über die diophantische Gleichung $x^9+y^9=2^nz^2$. (Polish summary) [On the Diophantine equation $x^9+y^9=2^nz^2$] **90d:11039**
Cochrane, Todd The Diophantine equation $f(x)=g(y)$. **90k:11028**
Coppersmith, Don Fermat's last theorem (case 1) and the Wieferich criterion. **90h:11024**
Degoli, Lando Solutions for Diophantine equations with the method of cyclic matrices. **90g:11035**
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Toliver, Ralph Haeger Bounds for solutions of two additive equations of odd degree. **90g:11040**
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Wolfmann, J. The number of points on certain algebraic curves over finite fields. **90k:11030**
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11D57 Multiplicative and norm form equations

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Gaál, István Inhomogeneous norm form equations over function fields. **90a:11038**
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— Norm form equations. IV. Rational functions. **90e:11048b**
— Norm form equations. V. Degenerate modules. **90e:11048c**
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Schmidt, Wolfgang M. The number of solutions of norm form equations. **90d:11041**
Shparlinskiĭ, I. E. Arithmetic properties of solutions of norm form equations. **90j:11028**
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11D61 Exponential equations

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— On a class of exponential Diophantine equations. (Chinese. English summary) **90h:11029**
— Hugh Edgar's problem on exponential Diophantine equations. (Chinese. English summary) **90i:11035**
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Le, Mao Hua On two problems of Hall and Edgar. (Chinese. English summary) **90d:11042**

— The Diophantine equation $x^2 + D^m = p^n$. **90j:11029**

— The Diophantine equation $x^2 = 4q^n + 4q^m + 1$. **90b:11024**

Urbanowicz, Jerzy On the equation $f(1)1^k + f(2)2^k + \cdots + f(x)x^k + R(x) = by^z$. **90b:11025**

— Remarks on the equation $1^k + 2^k + \cdots + (x-1)^k = x^k$. **90b:11026**

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Shorey, T. N. Integers with identical digits. **90j:11027**

Waldschmidt, M. *see* **Mignotte, Maurice, 90k:11092**

de Weger, B. M. M. ★ Algorithms for Diophantine equations. **90m:11205**

Wolfskill, J. Bounding squares in second order recurrence sequences. **90m:11027**

11D68 Rational numbers as sums of fractions

Items with secondary classifications in 11D68

Borwein, P. B. (*with* Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^{g_n}$. **90e:11020**

Loring, Terry A. *see* **Borwein, P. B., 90e:11020**

11D72 Equations in many variables [see also 11P55]

Evertse, Jan-Hendrik (*with* Győry, K.) Finiteness criteria for decomposable form equations. **90a:11041**

— (*with* Gaál, István; Győry, K.) On the numbers of solutions of decomposable polynomial equations. **90i:11036**

Gaál, István *see* **Evertse, Jan-Hendrik; et al., 90i:11036**

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Wang, Yuan[1] Diophantine equations and Diophantine inequalities in algebraic number fields. **90b:11027**

— Diophantine inequalities for forms in an algebraic number field. **90c:11021**

Yanovich, I. I. Some cases of solution of the generalized Markov equation. (Russian) **90k:11031**

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Cao, Zhen Fu On a class of exponential Diophantine equations. (Chinese. English summary) **90h:11029**

Fujiwara, Masahiko Distribution of rational points on varieties over finite fields. **90b:11028**

Komatsu, Kenzô On certain homogeneous Diophantine equations of degree $n(n-1)$. **90g:11037**

Lang, Serge Old and new conjectured Diophantine inequalities. **90k:11032**

Moret-Bailly, Laurent Groupes de Picard et problèmes de Skolem. I, II. [Picard groups and Skolem problems. I, II] **90i:11065**

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11D75 Diophantine inequalities [see also 11J25]

Hausman, Miriam (*with* Shapiro, Harold N.) On Ramanujan's right triangle conjecture. **90e:11049**

Lang, Serge Old and new conjectured Diophantine inequalities. **90k:11032**

Mazurov, M. E. A geometric method for studying solutions of Diophantine inequalities. (Russian) **90k:11033**

Mueller, Julia Good rational approximation derived from Thue's inequality. **90d:11043**

Shapiro, Harold N. *see* **Hausman, Miriam, 90e:11049**

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Items with secondary classifications in 11D75

Schmidt, Wolfgang M. The number of solutions of Thue equations. **90a:11036**

11D79 Congruences in many variables

Chalk, John H. H. Polynomial congruences over incomplete residue systems, modulo k. **90e:11050**

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Fujiwara, Masahiko Distribution of rational points on varieties over finite fields. **90b:11028**

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Items with secondary classifications in 11D79

Atkinson, O. D. (*with* Cook, Roger J.) Pairs of additive congruences to a large prime modulus. **90e:11051**

Cook, Roger J. *see* **Atkinson, O. D., 90e:11051**

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Gérardin, Paul (*with* Lin, Ts'ung Yüan) An identity involving quadratic characters. **90m:11053**

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— Diophantine inequalities for forms in an algebraic number field. **90c:11021**

11D85 Representation problems [see also 11P55]

Choudhry, Ajai Representation of every rational number as an algebraic sum of fifth powers of rational numbers. **90g:11041**

Drimbe, Mihai Onucu Generalization of representation theorem of Erdős and Surányi. **90b:11029**

Golovizin, V. V. (*with* Maksimova, I. N.) A square-free representation of numbers by sums of squares in real number fields. (Russian) (*see* **90h:11001**)

Maksimova, I. N. *see* **Golovizin, V. V., (90h:11001)**

Items with secondary classifications in 11D85

Duke, W. (*with* Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. **90m:11051**

Faĭziev, R. F. New identities for the product of sums of four squares and their applications. (Russian. Tajiki summary) **90a:11045**

Goetgheluck, Pierre On cubic polynomials giving many primes. **90j:11014**

Israilov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) **90k:11131**

Kitaoka, Yoshiyuki Some remarks on representations of positive definite quadratic forms. **90k:11036**

Liu, Ming Chit (*with* Tsang, Kai Man) Small prime solutions of linear equations. **90i:11112**

Metzler, Hans Über die Anzahl der Gitterpunkte auf der Kreislinie mit $x^2 + y^2 = z$. [On the number of lattice points on the circle with $x^2 + y^2 = z$] **90k:11025**

Pethő, Attila On the representation of 1 by binary cubic forms with positive discriminant. **90k:11027**

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11D88 p-adic and power series fields

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11D99 None of the above, but in this section

Kanemitsu, S. (*with* Shirasaka, Shigeshi) On the trigonometric Diophantine equation $l' \tan(k/m)\pi = l \tan(k'/m)\pi$. **90g:11042**

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11E04 Quadratic forms over general fields

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11E10 Forms over real fields

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11E16 General binary quadratic forms

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11E32 Reduction theory of quadratic forms [See mainly 11H55]

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11E36 Distribution of lattice points on quadrics [See mainly 11P21]

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11E41 Class numbers of quadratic and Hermitian forms

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11E57 Classical groups [see also 14Lxx, 20Gxx]

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11E70 K-theory of quadratic and Hermitian forms

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11E72 Galois cohomology of linear algebraic groups [see also 20G10]

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Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) **90a:11070**
Wang, Yuan[1] Diophantine inequalities for forms in an algebraic number field. **90c:11021**

11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Becker, Eberhard (*with* Gondard, Danielle) On rings admitting orderings and 2-primary chains of orderings of higher level. **90h:11033**
Bos, Rik A structure theorem for abstract Witt rings containing rigid elements. **90i:11044**
Fitzgerald, Robert W. Gorenstein Witt rings. **90d:11048**
— Ideal class groups of Witt rings. **90g:11053**
Gondard, Danielle *see* **Becker, Eberhard, 90h:11033**
Iwan, Andrzej (*with* Wowk, Czesław) Basic part of Witt rings of elementary type. **90d:11049**
Jiang, Di Hua The structure of the Grothendieck groups of almost unimodular quadratic lattices. (Chinese) **90h:11034**
Juozapavičius, Algimantas Symbolic computation for Witt rings. **90m:11056**
Krüskemper, Martin (*with* Scharlau, Winfried) On positive quadratic forms. **90b:11037**
— Algebraic systems of quadratic forms of number fields and function fields. **90h:11035**
Lam, T. Y. Fields of u-invariant 6 after A. Merkurjev [A. S. Merkur'ev]. **90m:11057**
Leep, David B. (*with* Wadsworth, Adrian R.) The transfer ideal of quadratic forms and a Hasse norm theorem mod squares. **90a:11047**
Lewis, D. W. New proofs of the structure theorems for Witt rings. **90d:11050**
Mammone, P. Algèbres de quaternions et formes quadratiques en caractéristique 2. [Quaternion algebras and quadratic forms of characteristic 2] **90a:11048**
Marshall, Murray Remarks on a certain idempotency property of Witt rings. **90d:11051**
— A simple system of axioms for spaces of signatures. **90d:11052**
Merkur'ev, A. S. Kaplansky's conjecture in the theory of quadratic forms. (Russian) **90m:11058**
— *see also* **Lam, T. Y., 90m:11057**
Mulcahy, Colm A representation theorem for higher level reduced Witt rings. **90a:11049**
Pfister, Albrecht Systeme quadratischer Formen. III. [Systems of quadratic forms. III] **90c:11026**
Powers, Victoria Finite spaces of signatures. **90h:11036**
Scharlau, Winfried *see* **Krüskemper, Martin, 90b:11037**
Shastri, Parvati Witt groups of algebraic integers. **90d:11053**
Wadsworth, Adrian R. *see* **Leep, David B., 90a:11047**
Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. **90g:11054**
Wowk, Czesław *see* **Iwan, Andrzej, 90d:11049**

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Arason, Jón Kr. (*with* Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. II. **90a:11043**
Beale, Stephen (*with* Harrison, D. K.) A computation of the Witt index for rational quadratic forms. **90g:11045**
Bon Durant, William R. Spinor norms of rotations of local integral quadratic forms. **90k:11035**
Conner, P. E. (*with* Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. **90a:11130**
Elman, Richard *see* **Arason, Jón Kr.; et al., 90a:11043**
Greither, Cornelius (*with* Harrison, D. K.) On constructions similar to the Burnside ring for commutative rings and profinite groups. **90d:13007**
Hambleton, Ian (*with* Madsen, I.) On the discriminants of forms with Arf invariant one. **90f:11026**
Harrison, D. K. *see* **Greither, Cornelius, 90d:13007** *and* **Beale, Stephen, 90g:11045**
Hellegouarch, Yves Positive definite binary quadratic forms over $k[X]$. **90i:11037**
Hornix, E. A. M. Field invariants under totally positive quadratic extensions. **90a:11044**
Iwakami, Tatsuo Valuations of a quasi-Pythagorean field. **90g:12011**
Jacob, Bill (*with* Rost, Markus) Degree four cohomological invariants for quadratic forms. **90g:11044**
— (*with* Ware, Roger) A recursive description of the maximal pro-2 Galois group via Witt rings. **90b:11127**
— *see also* **Arason, Jón Kr.; et al., 90a:11043**
Jardine, J. F. The homotopical foundations of algebraic K-theory. **90j:55029**
Kashima, Hidemoto On the U-invariant and the linkage property. **90b:11032**
Kozioł, Krzysztof Quadratic forms over quadratic extensions of generalized local fields. **90a:12011**
Leung, Ka Hin Positive semidefinite forms over ordered skew fields. **90f:11027**
Li, Shang Zhi Maximality of symplectic groups over fields in linear groups. (Chinese) (Not in MR)
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Micali, A. (*with* Villamayor, Orlando E.) Formes quadratiques sur un corps de caractéristique 2. (English summary) [Quadratic forms over a field of characteristic 2] **90a:11051**
Mináč, Ján Quaternion fields inside Pythagorean closure. **90b:11033**
Parimala, R. Witt groups of affine three-folds. **90a:14006**
Prószyński, Andrzej Forms and mappings. III. Regular m-applications. **90m:13008**
Rost, Markus *see* **Jacob, Bill, 90g:11044**
Scheiderer, Claus Stability index of real varieties. **90g:14011**
Villamayor, Orlando E. *see* **Micali, A., 90a:11051**
Wadsworth, Adrian R. The residue division ring of a valued division algebra. **90b:16028**
Ware, Roger A note on the quaternion group as Galois group. **90g:12006**
— *see also* **Jacob, Bill, 90b:11127**
Yui, Noriko *see* **Conner, P. E., 90a:11130**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Knus, M.-A. Pfaffians and quadratic forms. **90a:11050**
Micali, A. (*with* Villamayor, Orlando E.) Formes quadratiques sur un corps de caractéristique 2. (English summary) [Quadratic forms over a field of characteristic 2] **90a:11051**
Villamayor, Orlando E. *see* **Micali, A., 90a:11051**

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Bayer, Pilar Embedding problems with kernel of order two. **90c:12004**
Benn, I. M. (*with* Tucker, R. W.) $SO(r+2, r)$ pure spinors. **90b:53015**
— (*with* Tucker, R. W.) Representing spinors with differential forms. **90f:53030**
Coquereaux, R. Spinors, reflections and Clifford algebras: a review. **90e:15039**
DeWitt-Morette, Cécile Topological obstructions to Pin structures. **90h:55030**
Kanzaki, Teruo Totally real commutative algebras. **90j:13014**
Kucharz, W. Symplectic complex bundles over real algebraic four-folds. **90k:14021**
Moresi, Remo Metabolische und Wittsche Zerlegungen in $\aleph_0$-dimensionalen hermiteschen Räumen. [Metabolic and Witt decompositions in $\aleph_0$-dimensional Hermitian spaces] **90c:15009**
Quebbemann, Heinz-Georg On extension of quadratic modules from affine to projective spaces. **90h:14024**
Tucker, R. W. *see* **Benn, I. M., 90b:53015** *and* **90f:53030**

11E92 Integer matrices [see also 15A36]

Bitter, Michael Some properties of the unimodular group in $\mathbf{R}^2$. **90g:11055**
Neumann, Walter D. On bilinear forms represented by trees. **90m:11059**

Items with secondary classifications in 11E92

Bradford, R. J. Hermite normal forms for integer matrices. **90m:15018**

11E95 p-adic theory

Hironaka, Yumiko (*with* Satō, Fumihiro) Spherical functions and local densities of alternating forms. **90c:11029**
— Spherical functions of Hermitian and symmetric forms. I. **90c:11027**
— Spherical functions of Hermitian and symmetric forms. III. **90c:11028**
Satō, Fumihiro *see* **Hironaka, Yumiko, 90c:11029**

Items with secondary classifications in 11E95

Aubert, Anne-Marie Correspondance de Howe et sous-groupes parahoriques. [Howe correspondence and parahoric subgroups] **90c:22053**
Kitaoka, Yoshiyuki Local densities of quadratic forms. **90f:11022**

11E99 None of the above, but in this section

Items with secondary classifications in 11E99

Grimmer, Hans Coincidence orientations of grains in rhombohedral materials. (Not in MR)
Moresi, Remo Metabolische und Wittsche Zerlegungen in $\aleph_0$-dimensionalen hermiteschen Räumen. [Metabolic and Witt decompositions in $\aleph_0$-dimensional Hermitian spaces] **90c:15009**
Terasoma, Tomohide Complete intersections of hypersurfaces—the Fermat case and the quadric case. **90f:14011**
Tesser, Steven Representations of a Clifford algebra that are Azumaya algebras and generate the Brauer group. **90b:16007**

11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

(Hashimoto, Ki-ichiro) *see* **Automorphic forms and geometry of arithmetic varieties, 90k:11043**
(Namikawa, Yukihiko) *see* **Automorphic forms and geometry of arithmetic varieties, 90k:11043**

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Automorphic forms and geometry of arithmetic varieties ★ Automorphic forms and geometry of arithmetic varieties. **90k:11043**
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Apostol, Tom M. ★ Modular functions and Dirichlet series in number theory. **90j:11001**
(Clozel, Laurent) *see* **Automorphic forms, Shimura varieties, and L-functions, 90j:11002** *and* **90j:11003**
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11F03 Modular and automorphic functions

Berndt, Bruce C. (*with* Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of "large" prime degree. **90b:11038**
Biagioli, Anthony J. *see* **Berndt, Bruce C.; et al., 90b:11038**
Cohn, Harvey Iteration of two-valued modular equations. **90k:11044**
— Singular moduli and modular equations for Fricke's cases. **90k:11045**
Diaz, Guy (*with* Philibert, Georges) Growth properties of the modular function j. **90e:11056**
Nishioka, Keiji A conjecture of Mahler on automorphic functions. **90h:11037**
Philibert, Georges *see* **Diaz, Guy, 90e:11056**
Piatetski-Shapiro, I. I. The existence of Maass cusp forms and Kloosterman sums. **90g:11056**
Purtilo, James M. *see* **Berndt, Bruce C.; et al., 90b:11038**

Items with secondary classifications in 11F03

Bailey, D. H. *see* **Borwein, J. M.; et al., 90d:11143**
Berndt, Bruce C. ★ Ramanujan's notebooks. Part II. **90b:01039**
Borwein, J. M. (*with* Borwein, P. B.; Bailey, D. H.) Ramanujan, modular equations, and approximations to pi, or How to compute one billion digits of pi. **90d:11143**
Borwein, P. B. *see* **Borwein, J. M.; et al., 90d:11143**
Dorman, David R. Singular moduli, modular polynomials, and the index of the closure of $\mathbf{Z}[j(\tau)]$ in $\mathbf{Q}(j(\tau))$. **90k:11149**
Gashkov, I. B. (*with* Sidel′nikov, V. M.) Codes that are connected with the group of fractional-linear transformations. **90c:94027**
Harada, Koichiro (*with* Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. **90g:11072**
Joyce, G. S. On the hard-hexagon model and the theory of modular functions. **90c:82055**
Knopp, M. I. Generation of the graded ring of automorphic forms on the Hecke groups. **90e:11057**
Koike, Masao Moonshine. Simple groups and unusual relations to automorphic functions. (Japanese) **90c:20023**
Konno, Shuji On Kronecker's limit formula for certain biquadratic fields. **90a:11136**
Koo, Ja Kyung Quotients of theta series as rational functions of J and λ. **90k:11053**
Kubota, Tomio On a functional equation involving Kloosterman sums. **90a:11060**
Lang, Mong-Lung *see* **Harada, Koichiro, 90g:11072**
Lecacheux, Odile Unités d'une famille de corps cycliques réeles de degré 6 liés à la courbe modulaire $X_1(13)$. (English summary) [Units of a family of real cyclic fields of degree 6 associated with the modular curve $X_1(13)$] **90i:11062**
(Magnus, Wilhelm) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Maskit, Bernard Parameters for Fuchsian groups. I. Signature (0, 4). **90g:30042**
Mathur, Samir D. (*with* Mukhi, Sunil; Sen, Ashoke) On the classification of rational conformal field theories. **90b:81134**
Mukhi, Sunil *see* **Mathur, Samir D.; et al., 90b:81134**
(Ramanujan, Srinivasa) *see* **Berndt, Bruce C., 90b:01039**
Rühl, W. Automorphic functions, Poincaré series, and conformal fields on Riemann surfaces. **90j:11039**
Sen, Ashoke *see* **Mathur, Samir D.; et al., 90b:81134**
(Shenitzer, A.) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Sidel′nikov, V. M. *see* **Gashkov, I. B., 90c:94027**
Siegel, C. L. ★ Topics in complex function theory. Vol. I. **90h:30002**
— ★ Topics in complex function theory. Vol. II. **90h:30003**
(Solitar, D.) *see* **Siegel, C. L., 90h:30002**
(Tretkoff, M.) *see* **Siegel, C. L., 90h:30003**

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

Maclachlan, C. (*with* Waterman, P. L.; Wielenberg, N. J.) Higher-dimensional analogues of the modular and Picard groups. **90b:11039**
Newman, Morris An asymptotic result for subgroups of SL(2, $\mathbf{Z}$) of level 2. **90a:11052**
Takagi, Toshikazu Classification of normal congruence subgroups of $G(\sqrt{q})$. I. **90k:11046**
— Classification of normal congruence subgroups of $G(\sqrt{q})$. II. **90k:11047**
Waterman, P. L. *see* **Maclachlan, C.; et al., 90b:11039**
Wielenberg, N. J. *see* **Maclachlan, C.; et al., 90b:11039**

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Beck, István Partial orders and the modular group. **90f:06002**
Bers, Lipman Finitely generated Kleinian groups. An introduction. **90i:20050**
Derevnin, D. A. (*with* Mednykh, Al. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskiĭ space. **90a:30131**
Fine, Benjamin ★ Algebraic theory of the Bianchi groups. **90h:20002**
Iwaniec, H. Selberg's lower bound of the first eigenvalue for congruence groups. **90f:11033**
Kulkarni, Ravi S. Geometry of Neumann subgroups. **90j:20099**
Langer, Ulrich^2 (*with* Rosenberger, Gerhard) Erzeugende endlicher projektiver linearer Gruppen. [Generators of finite projective linear groups] **90h:20070**
Levin, Frank (*with* Rosenberger, Gerhard) Generators of finite projective linear groups. II. **90m:20058**
Mason, A. W. Nonstandard, normal subgroups and nonnormal, standard subgroups of the modular group. **90f:20067**
Mednykh, Al. D. *see* **Derevnin, D. A., 90a:30131**
Mostow, G. D. Selberg's work on the arithmeticity of lattices and its ramifications. **90h:22010**
Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) **90d:11044**
Rosenberger, Gerhard Minimal generating systems of a subgroup of SL(2, $\mathbf{C}$). **90g:20075**
— *see also* **Langer, Ulrich^2, 90h:20070** *and* **Levin, Frank, 90m:20058**
(Serre, Jean-Pierre) *see* **Thompson, J. G., 90a:20105**
Stothers, W. W. On formulae of Macbeath and Hussein. **90c:20059**
Thompson, J. G. Hecke operators and noncongruence subgroups. **90a:20105**
— Fricke, free groups and SL_2. **90f:20074**
Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. **90h:22011**
Zwiebach, Barton Closed string couplings with modular properties. **90e:81249**

11F11 Modular forms, one variable

Berndt, Bruce C. (*with* Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's "mixed" modular equations. **90k:11048**
— (*with* Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of degrees 7 and 11. **90b:11040**
— Introduction to Ramanujan's modular equations. **90d:11055**
Biagioli, Anthony J. A proof of some identities of Ramanujan using modular forms. **90m:11060**
— *see also* **Berndt, Bruce C.; et al., 90b:11040** *and* **90k:11048**
Feng, Xu Ning *see* **Pei, Ding Yi, 90b:11043**
Hickerson, Dean A proof of the mock theta conjectures. **90f:11028a**
— On the seventh order mock theta functions. **90f:11028b**

Hijikata, Hiroaki (*with* Pizer, Arnold K.; Shemanske, T.) The basis problem for modular forms on $\Gamma_0(N)$. **90d:11056**
Hiramatsu, Toyokazu On traces of Hecke operators on the space of cusp forms of weight 1. **90j:11034**
Jordan, Bruce W. (*with* Livné, Ron) Conjecture "epsilon" for weight $k > 2$. **90d:11057**
Kohnen, Winfried A remark on the Shimura correspondence. **90b:11041**
Kubota, Tomio On a classical theta-function. II. **90a:11053**
Livné, Ron *see* **Jordan, Bruce W., 90d:11057**
(Maeda, Yoshitaka) *see* **Miyake, Toshitsune, 90m:11062**
Manickam, M. (*with* Ramakrishnan, B.; Vasudevan, T. C.) On Shintani correspondence. **90m:11061**
Miyake, Toshitsune ★ Modular forms. **90m:11062**
Mozzochi, C. J. On the nonvanishing of Poincaré series. **90d:11058**
Murty, V. Kumar Lacunarity of modular forms. **90b:11042**
Pei, Ding Yi (*with* Feng, Xu Ning) Some results of modular forms. **90b:11043**
Pizer, Arnold K. Ramanujan graphs and Hecke operators. **90m:11063**
— *see also* **Hijikata, Hiroaki; et al., 90d:11056**
Purtilo, James M. *see* **Berndt, Bruce C.; et al., 90b:11040** *and* **90k:11048**
Ramakrishnan, B. *see* **Manickam, M.; et al., 90m:11061**
(Ramanujan, Srinivasa) *see* **Berndt, Bruce C., 90d:11055**
Scholl, A. J. Modular forms on noncongruence subgroups. **90k:11049**
Shemanske, T. *see* **Hijikata, Hiroaki; et al., 90d:11056**
Stark, Harold M. On modular forms of weight one from real quadratic fields and theta functions. **90c:11030**
Ueda, Masaru The decomposition of the spaces of cusp forms of half-integral weight and trace formula of Hecke operators. **90a:11054**
Vasudevan, T. C. *see* **Manickam, M.; et al., 90m:11061**

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Akiyama, Shigeki On the Fourier coefficients of automorphic forms of triangle groups. **90i:11047**
Alvarez, Enrique (*with* Osorio, M. A. R.) Twisted modular forms and Atkin-Lehner symmetries. **90i:81097**
Arenas, A. An arithmetic problem on the sums of three squares. **90c:11070**
Baker, Andrew James On the homotopy type of the spectrum representing elliptic cohomology. **90d:55008**
Balog, J. (*with* Tuite, Michael P.) The failure of Atkin-Lehner symmetry for lattice compactified strings. **90k:81181**
Berndt, Bruce C. (*with* Biagioli, Anthony J.; Purtilo, James M.) Ramanujan's modular equations of "large" prime degree. **90b:11038**
Biagioli, Anthony J. *see* **Berndt, Bruce C.; et al., 90b:11038**
Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) A nonvanishing theorem for derivatives of automorphic L-functions with applications to elliptic curves. **90b:11063**
Cassou-Noguès, Ph. (*with* Taylor, Martin J.) Unités modulaires et monogénéité d'anneaux d'entiers. [Modular units and monogeneity of rings of integers] **90g:11155**
Choie, YoungJu Rational period functions for the modular group and real quadratic fields. **90i:11054**
Christian, Ulrich Über die analytische Fortsetzung gewisser Poincaréscher Reihen zu elliptischen Modulgruppen. [On the analytic continuation of certain Poincaré series attached to elliptic modular groups] **90d:11071**
Cipra, Barry A. On the Shimura lift, après Selberg. **90g:11058**
Cox, David A. ★ Primes of the form $x^2 + ny^2$. **90m:11016**
Felder, G. (*with* Silvotti, R.) Modular covariance of minimal model correlation functions. **90i:81116**
Ferrara, S. (*with* Lüst, D.; Shapere, Alfred; Theisen, S.) Modular invariance in supersymmetric field theories. **90k:83097**
Friedberg, Solomon *see* **Bump, Daniel; et al., 90b:11063**
Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. **90m:57030**
Hisamatsu, Tatsuo A remark about the Taniyama-Weil conjecture for an elliptic curve defined by an equation $y^2 = x^3 + D^2x + D^3$. **90j:11044**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 90b:11063**
Itzykson, Claude Modular invariance and the A-D-E classification. (*see* **90m:81002**)
Köhler, Günter[1] Theta series on the theta group. **90m:11067**
Lomadze, G. A. Representation of numbers by sums of the quadratic forms $x_1^2 + x_1x_2 + x_2^2$. (Russian) **90m:11147**
Lüst, D. (*with* Theisen, S.) Superstring partition functions and the characters of exceptional groups. **90g:81256**
— *see also* **Ferrara, S.; et al., 90k:83097**
Masumoto, Makoto The kernel of the Poincaré series operator of weight −2. **90d:30126**
Mathur, Samir D. (*with* Mukhi, Sunil; Sen, Ashoke) Reconstruction of conformal field theories from modular geometry on the torus. **90k:81225**
McMullen, Curt Amenability, Poincaré series and quasiconformal maps. **90e:30048**
Moreno, C. J. (*with* Rocha-Caridi, A.) The exact formula for the weight multiplicities of affine Lie algebras. I. **90c:17036**
Mukhi, Sunil (*with* Panda, Sudhakar; Sen, Ashoke) Contour integral representations for the characters of rational conformal field theories. **90k:81231**
— *see also* **Mathur, Samir D.; et al., 90k:81225**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) The Manin-Drinfel′d theorem and Ramanujan sums. **90m:11091**
Osorio, M. A. R. *see* **Alvarez, Enrique, 90i:81097**
Panda, Sudhakar *see* **Mukhi, Sunil; et al., 90k:81231**
Purtilo, James M. *see* **Berndt, Bruce C.; et al., 90b:11038**
Raghavan, Srinivasacharya On Ramanujan's modular identities. **90j:11104**
Ramakrishnan, Dinakar *see* **Murty, V. Kumar, 90m:11091**
Ramanathan, K. G. Hypergeometric series and continued fractions. **90b:33011**
Rankin, R. A. Cusp forms of given level and real weight. **90d:11065**
Rocha-Caridi, A. *see* **Moreno, C. J., 90c:17036**
Satoh, Takakazu Jacobi forms and certain special values of Dirichlet series associated to modular forms. **90k:11065**
Schellekens, A. N. Lattice constructions of fermionic strings. **90k:81244**
— Chiral anomalies in string theory. **90h:81189**
Scholl, A. J. The l-adic representations attached to a certain noncongruence subgroup. **90e:11064**
Sen, Ashoke *see* **Mathur, Samir D.; et al., 90k:81225** *and* **Mukhi, Sunil; et al., 90k:81231**
Shapere, Alfred *see* **Ferrara, S.; et al., 90k:83097**
Silvotti, R. *see* **Felder, G., 90i:81116**
Skoruppa, Nils-Peter (*with* Zagier, Don) A trace formula for Jacobi forms. **90b:11045**
Stevens, Glenn Stickelberger elements and modular parametrizations of elliptic curves. **90m:11089**
Taylor, Martin J. *see* **Cassou-Noguès, Ph., 90g:11155**
Theisen, S. *see* **Lüst, D., 90g:81256** *and* **Ferrara, S.; et al., 90k:83097**
Tuite, Michael P. *see* **Balog, J., 90k:81181**
Winkler, Andrew M. Cusp forms and Hecke groups. **90g:11067**
Yoshida, Hiroyuki On calculations of zeros of L-functions related with Ramanujan's discriminant function on the critical line. **90b:11044**
Zagier, Don *see* **Skoruppa, Nils-Peter, 90b:11045**
Zograf, P. G. On the potential of the Weil-Petersson metric on the Teichmüller space of punctured Riemann surfaces of genus 0. **90d:32040**
Zuckerman, Gregg J. Modular forms, strings, and ghosts. **90i:17026**

11F12 Automorphic forms, one variable

Katok, Svetlana Finite spanning sets for cusp forms and a related geometric result. **90d:11059**
Knopp, M. I. Generation of the graded ring of automorphic forms on the Hecke groups. **90e:11057**

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Baker, Andrew James Elliptic cohomology, p-adic modular forms and Atkin's operator U_p. **90i:55007**
Efrat, Isaac On the existence of cusp forms over function fields. **90g:11066**
Pizer, Arnold K. Ramanujan graphs and Hecke operators. **90m:11063**
Shimizu, Hideo The space of Eisenstein series in the case of GL_2. **90d:11061**
Stark, Harold M. On modular forms of weight one from real quadratic fields and theta functions. **90c:11030**
Taylor, Richard On Galois representations associated to Hilbert modular forms. **90m:11176**

11F20 Dedekind eta function, Dedekind sums

Bruggeman, Roelof W. Eisenstein series and the distribution of Dedekind sums. **90i:11045**
Gordon, Basil (*with* Sinor, Dale) Multiplicative properties of η-products. **90k:11050**
Haas, Andrew Howard Diophantine approximation on hyperbolic orbifolds. **90c:11031**
Kirschenhofer, P. (*with* Prodinger, H.; Schoißengeier, J.) Zur Auswertung gewisser numerischer Reihen mit Hilfe modularer Funktionen. (English summary) [On evaluating certain numerical series with the aid of modular functions] **90g:11057**
Lu, Hong Wen Translation of Dedekind η function. **90d:11060**
Prodinger, H. *see* **Kirschenhofer, P.; et al., 90g:11057**
Schoißengeier, J. *see* **Kirschenhofer, P.; et al., 90g:11057**
Sinor, Dale *see* **Gordon, Basil, 90k:11050**
Takegahara, Yugen On Rademacher's three-term relations for Dedekind sums. **90m:11064**

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Eggan, P. C. Linear congruences for power products of Dedekind η-functions. **90e:11063**
Ford, David J. (*with* McKay, John) Ramifications of Ramanujan's work on η-products. **90k:11051**
Köhler, Günter[1] Theta series on the theta group. **90m:11067**
Koike, Masao Moonshine. Simple groups and unusual relations to automorphic functions. (Japanese) **90c:20023**
McKay, John *see* **Ford, David J., 90k:11051**
Moreno, C. J. (*with* Rocha-Caridi, A.) The exact formula for the weight multiplicities of affine Lie algebras. I. **90c:17036**
Raghavan, Srinivasacharya On Ramanujan's modular identities. **90j:11104**
Ramanathan, K. G. Some applications of Kronecker's limit formula. **90j:11112**
Rocha-Caridi, A. *see* **Moreno, C. J., 90c:17036**
Stevens, Glenn The Eisenstein measure and real quadratic fields. **90m:11077**

11F22 Relationship to Lie algebras and finite simple groups

Ford, David J. (*with* McKay, John) Ramifications of Ramanujan's work on η-products. **90k:11051**
Koike, Masao Modular forms and the automorphism group of Leech lattice. **90h:11038**
Lang, Mong-Lung On a question raised by Conway-Norton. **90h:11039**
Mason, Geoffrey Finite groups and Hecke operators. **90k:11052**
McKay, John (*with* Strauss, Hubertus) The q-series of monstrous moonshine and the decomposition of the head characters. **90m:11065**
— *see also* **Ford, David J., 90k:11051**
Strauss, Hubertus *see* **McKay, John, 90m:11065**

Items with secondary classifications in 11F22

Freitag, E. The transformation formalism of vector valued theta functions with respect to the Siegel modular group. **90d:11062**
Goddard, Peter Modular invariance and infinite-dimensional algebras. (*see* **90a:81006**)
Harada, Koichiro (*with* Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. **90g:11072**
Koike, Masao Moonshine. Simple groups and unusual relations to automorphic functions. (Japanese) **90c:20023**
Lang, Mong-Lung *see* **Harada, Koichiro, 90g:11072**
Lu, Shi Rong Some results on modular invariant representations. **90k:17058**

11F25 Hecke-Petersson operators, differential operators (1 variable)

Laffaille, Guy Valeurs propres et vecteurs propres d'un opérateur de Hecke sur S^2. [Eigenvalues and eigenvectors of a Hecke operator on S^2] **90m:11066**
Shimizu, Hideo The space of Eisenstein series in the case of GL_2. **90d:11061**

Items with secondary classifications in 11F25

Hijikata, Hiroaki (*with* Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. **90d:11128**
(Maeda, Yoshitaka) *see* **Miyake, Toshitsune, 90m:11062**
Mason, Geoffrey Finite groups and Hecke operators. **90k:11052**
Miyake, Toshitsune ★ Modular forms. **90m:11062**
Pizer, Arnold K. Ramanujan graphs and Hecke operators. **90m:11063**
— *see also* **Hijikata, Hiroaki; et al., 90d:11128**
Shemanske, T. *see* **Hijikata, Hiroaki; et al., 90d:11128**
Ulmer, D. L. On universal elliptic curves over Igusa curves. **90m:11092**

11F27 Theta series; Weil representation

Freitag, E. The transformation formalism of vector valued theta functions with respect to the Siegel modular group. **90d:11062**
Glauberman, G. I. (*with* Rogawski, J. D.) On theta functions with complex multiplication. **90e:11058**
Kawada, Yukiyosi A proof of the transformation formula of the theta-functions. **90d:11063**
Köhler, Günter[1] Theta series on the theta group. **90m:11067**
Koizumi, Shoji Theta series and the Poincaré divisor. **90m:11068**
Koo, Ja Kyung Quotients of theta series as rational functions of J and λ. **90k:11053**
Kudla, Stephen S. (*with* Millson, John J.) Tubes, cohomology with growth conditions and an application to the theta correspondence. **90k:11054**
— (*with* Rallis, Stephen) On the Weil-Siegel formula. **90e:11059**
— (*with* Rallis, Stephen) On the Weil-Siegel formula. II. The isotropic convergent case. **90e:11060**
Li, Jian-Shu Distinguished cusp forms are theta series. **90h:11040**
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Pathria, R. K. *see* **Singh, Surjit**[2]**, 90e:11062**
Piatetski-Shapiro, I. I. (*with* Rallis, Stephen) A new way to get Euler products. **90c:11032**
Rallis, Stephen (*with* Schiffmann, G.) Theta correspondence associated to G_2. **90i:11046**
— *see also* **Piatetski-Shapiro, I. I., 90c:11032; Kudla, Stephen S., 90e:11059** *and* **90e:11060**
Rogawski, J. D. *see* **Glauberman, G. I., 90e:11058**
Salvati Manni, Riccardo Thetanullwerte and stable modular forms. **90e:11061**
Schiffmann, G. *see* **Rallis, Stephen, 90i:11046**
Singh, Surjit[2] (*with* Pathria, R. K.) Analytical evaluation of a class of lattice sums in arbitrary dimensions. **90e:11062**

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Arenas, A. An arithmetic problem on the sums of three squares. **90c:11070**
Arfaei, H. *see* **Ardalan, F.; et al., 90i:22040**
Berndt, Bruce C. Introduction to Ramanujan's modular equations. **90d:11055**
Böcherer, Siegfried Siegel modular forms and theta series. **90i:11049**
Cogdell, J. W. (*with* Piatetski-Shapiro, I. I.) Base change for the Saito-Kurokawa representations of PGSp(4). **90b:11051**
Garrett, Paul B. ★ Holomorphic Hilbert modular forms. **90k:11058**
Gelbart, S. (*with* Soudry, David) On Whittaker models and the vanishing of Fourier coefficients of cusp forms. **90e:11074**
Igusa, Jun-ichi Problems on theta functions. **90i:11050**
Millson, John J. Intersection numbers of cycles on locally symmetric spaces and Fourier coefficients of holomorphic modular forms in several complex variables. **90m:32052**
Montaldi, Emilio (*with* Zucchelli, Giuseppe) Additive decomposition for the product of two θ_3 functions and modular equations. **90k:14048**
Nishioka, Keiji A conjecture of Mahler on automorphic functions. **90h:11037**
Pantoja, José (*with* Soto-Andrade, Jorge) Groupes de Grassmann-Heisenberg et représentations de Weil généralisées pour SL_n, n pair. (English summary) [Grassmann-Heisenberg groups and generalized Weil representations for SL_n, n even] **90i:22031**
Piatetski-Shapiro, I. I. *see* **Cogdell, J. W., 90b:11051**
(Ramanujan, Srinivasa) *see* **Berndt, Bruce C., 90d:11055**
Roland, K. Two- and three-loop amplitudes in covariant loop calculus. **90m:81130**
Salvati Manni, Riccardo On the holomorphic differential forms of the Siegel modular variety. **90j:11038**
Schulze-Pillot, Rainer A linear relation between theta series of degree and weight 2. **90g:11060**
Shapere, Alfred (*with* Wilczek, Frank) Self-dual models with theta terms. **90k:81170**
Soto-Andrade, Jorge *see* **Pantoja, José, 90i:22031**
Soudry, David *see* **Gelbart, S., 90e:11074**
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Tsuchiya, Akihiko More on one-loop massless amplitudes of superstring theories. **90i:81153**
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11F30 Fourier coefficients of automorphic forms

Akiyama, Shigeki On the Fourier coefficients of automorphic forms of triangle groups. **90i:11047**
Feit, Paul Explicit formulas for local factors in the Euler products for Eisenstein series. **90a:11055**
Golovanov, A. S. Fourier coefficients of cusp forms of weight 3/2. (Russian) (*see* **90h:11001**)
Hafner, James Lee (*with* Ivić, Aleksandar) On sums of Fourier coefficients of cusp forms. **90k:11055**
Ivić, Aleksandar *see* **Hafner, James Lee, 90k:11055**
Knopp, M. I. On the Fourier coefficients of cusp forms having small positive weight. **90j:11035**
Konno, Shuji Eisenstein series in hyperbolic 3-space and Kronecker limit formula for biquadratic field. **90d:11064**
Li, Hung Ch'ang On 2-adic densities of degree 2. **90m:11069**
Rankin, R. A. Cusp forms of given level and real weight. **90d:11065**
Sarnak, P. Statistical properties of eigenvalues of the Hecke operators. **90k:11056**
Voronetskiĭ, A. B. An analogue of the Hardy theorem for Fourier coefficients of cusp forms. (Russian) (*see* **90h:11001**)

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Bruggeman, Roelof W. Eisenstein series and the distribution of Dedekind sums. **90i:11045**
Bump, Daniel (*with* Hoffstein, Jeffrey) Some conjectured relationships between theta functions and Eisenstein series on the metaplectic group. **90m:11076**
Fomenko, O. M. Estimates for scalar squares of cusp forms, and arithmetic applications. (Russian) **90c:11037**
Goldfeld, Dorian Analytic number theory on GL(r, **R**). **90g:11061**
Hoffstein, Jeffrey *see* **Bump, Daniel, 90m:11076**
Kitaoka, Yoshiyuki Fourier coefficients of certain Eisenstein series. **90m:11071**
Krieg, Aloys Eisenstein-series on the four-dimensional hyperbolic space. **90a:11059**
Kubota, Tomio On a functional equation involving Kloosterman sums. **90a:11060**
Manickam, M. (*with* Ramakrishnan, B.; Vasudevan, T. C.) On Shintani correspondence. **90m:11061**
Millson, John J. Intersection numbers of cycles on locally symmetric spaces and Fourier coefficients of holomorphic modular forms in several complex variables. **90m:32052**
Miyake, Toshitsune On $\mathbf{Q}_{ab}$-rationality of Eisenstein series of weight $\frac{3}{2}$. **90h:11042**
Patterson, S. J. A heuristic principle and applications to Gauss sums. **90g:11138**
Proskurin, N. V. Automorphic forms on the exceptional group $G_2(\mathbf{C})$. (Russian) **90i:11052**
Raghavan, Srinivasacharya Estimation of Fourier coefficients of Siegel modular forms. **90d:11068**
Ramakrishnan, B. *see* **Manickam, M.; et al., 90m:11061**
Scholl, A. J. Modular forms on noncongruence subgroups. **90k:11049**
Vasudevan, T. C. *see* **Manickam, M.; et al., 90m:11061**

11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

Diamond, Fred On congruence modules associated to Λ-adic forms. **90h:11041**
Eggan, P. C. Linear congruences for power products of Dedekind η-functions. **90e:11063**
Kohnen, Winfried p-adic congruences for cycle integrals associated to elliptic curves with complex multiplication. **90a:11056**
Livné, Ron On the conductors of mod l Galois representations coming from modular forms. **90f:11029**
Mazur, Barry C. Deforming Galois representations. **90k:11057**
Scholl, A. J. The l-adic representations attached to a certain noncongruence subgroup. **90e:11064**

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Gordon, Basil (*with* Sinor, Dale) Multiplicative properties of η-products. **90k:11050**
Scholl, A. J. Modular forms on noncongruence subgroups. **90k:11049**
Sinor, Dale *see* **Gordon, Basil, 90k:11050**
Taylor, Richard On Galois representations associated to Hilbert modular forms. **90m:11176**
Tilouine, Jacques Théorie d'Iwasawa de l'algèbre de Hecke ordinaire et théorie d'Iwasawa classique. [Iwasawa theory of the ordinary Hecke algebra and classical Iwasawa theory] **90c:11082**

11F35 Ramanujan τ-function

(Ramanujan, Srinivasa) *see* **Singal, M. K., 90c:11033**
Singal, M. K. Some glimpses of Ramanujan's work. I. Ramanujan's τ-function. **90c:11033**
Yoshida, Hiroyuki On calculations of zeros of L-functions related with Ramanujan's discriminant function on the critical line. **90b:11044**

Items with secondary classifications in 11F35

(Ramanujan, Srinivasa) *see* **Waldschmidt, M., 90g:11089**
Waldschmidt, M. Some transcendental aspects of Ramanujan's work. **90g:11089**

11F37 Forms of half-integer weight; nonholomorphic modular forms

Cipra, Barry A. On the Shimura lift, après Selberg. **90g:11058**
Kuznetsov, N. V. The sums of the Kloosterman sums. **90i:11048**
Miyake, Toshitsune On $\mathbf{Q}_{ab}$-rationality of Eisenstein series of weight $\frac{3}{2}$. **90h:11042**
Skoruppa, Nils-Peter (*with* Zagier, Don) A trace formula for Jacobi forms. **90b:11045**
Zagier, Don *see* **Skoruppa, Nils-Peter, 90b:11045**

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Baranov, M. A. (*with* Frolov, I. V.; Shvarts, A. S.) The geometry of the superconformal moduli space. **90i:32033**
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Biagioli, Anthony J. *see* **Berndt, Bruce C.; et al., 90b:11040**

Bump, Daniel (*with* Friedberg, Solomon) On Mellin transforms of unramified Whittaker functions on GL(3, C). **90k:22009**
Friedberg, Solomon *see* **Bump, Daniel, 90k:22009**
Frolov, I. V. *see* **Baranov, M. A.; et al., 90i:32033**
Gelbart, S. (*with* Soudry, David) On Whittaker models and the vanishing of Fourier coefficients of cusp forms. **90e:11074**
Golovanov, A. S. Fourier coefficients of cusp forms of weight 3/2. (Russian) (*see* **90h:11001**)
Jacquet, Hervé On the nonvanishing of some L-functions. **90e:11079**
Miyake, Toshitsune On the spaces of Eisenstein series of Hilbert modular groups. **90g:11059**
Motohashi, Yoichi A spectral decomposition of the product of four zeta-values. **90g:11118**
Piatetski-Shapiro, I. I. The existence of Maass cusp forms and Kloosterman sums. **90g:11056**
Purtilo, James M. *see* **Berndt, Bruce C.; et al., 90b:11040**
Sarnak, P. Statistical properties of eigenvalues of the Hecke operators. **90k:11056**
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Soudry, David *see* **Gelbart, S., 90e:11074**
Ueda, Masaru The decomposition of the spaces of cusp forms of half-integral weight and trace formula of Hecke operators. **90a:11054**

11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

Blasius, Don (*with* Rogawski, J. D.) Galois representations for Hilbert modular forms. **90b:11046**
Cohn, Harvey Computer algebra and the Hilbert modular equation. **90e:11065**
Garrett, Paul B. ★ Holomorphic Hilbert modular forms. **90k:11058**
Gundlach, Karl-Bernhard Die Berechnung von Multiplikatorsystemen zu Hilbertschen Modulgruppen. [The calculation of multiplier systems for Hilbert's modular groups] **90d:11066**
Hermann, Carl Friedrich Thetareihen und modulare Spitzenformen zu den Hilbertschen Modulgruppen reell-quadratischer Körper. II. [Theta series and modular cusp forms for the Hilbert modular groups of real-quadratic fields. II] **90c:11034**
Holzapfel, R.-P. On the Nebentypus of Picard modular forms. **90a:11057**
Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. **90b:11047**
Ishikawa, Hirofumi The distribution of the Hilbert modular type cusp forms of weight two and its statistical model. **90e:11066**
Joyner, David On the Kuznetsov-Bruggeman formula for a Hilbert modular surface having one cusp. **90k:11059**
Miyake, Toshitsune On the spaces of Eisenstein series of Hilbert modular groups. **90g:11059**
Oka, Yoshiro On the modular imbeddings for cyclic cubic fields. **90e:11067**
Rogawski, J. D. *see* **Blasius, Don, 90b:11046**
Sczech, Robert Cusps on Hilbert modular varieties and values of L-functions. **90m:11070**

Items with secondary classifications in 11F41

Belokolos, E. D. (*with* Ènol′skiĭ, V. Z.) Algebraically integrable nonlinear equations and Humbert surfaces. **90e:14046**
Colmez, Pierre Algébricité de valeurs spéciales de fonctions L. [Algebraicity of special values of L-functions] **90f:11030**
Ènol′skiĭ, V. Z. *see* **Belokolos, E. D., 90e:14046**
Feng, Xu Ning *see* **Pei, Ding Yi, 90b:11043**
Holzapfel, R.-P. Chern number relations for locally abelian Galois coverings of algebraic surfaces. **90f:14005**
— Discrete analysis of surface coverings. I. **90d:14013a**
— Discrete analysis of surface coverings. II. **90d:14013b**
Klingenberg, Christoph Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. **90h:11049**
Kuga, Michio On a conjectural equation of certain kinds of surfaces. **90e:11088**
Pei, Ding Yi (*with* Feng, Xu Ning) Some results of modular forms. **90b:11043**
Petri, Monica Arithmetic classification of Kuga fiber varieties of quaternion type. **90k:11071**
Sasaki, Takeshi (*with* Yoshida, Masaaki) Linear differential equations in two variables of rank four. I. **90e:11071a**
— (*with* Yoshida, Masaaki) Linear differential equations in two variables of rank four. II. The uniformizing equation of a Hilbert modular orbifold. **90e:11071b**
Shimura, Goro On the critical values of certain Dirichlet series and the periods of automorphic forms. **90e:11069**
Taylor, Richard On Galois representations associated to Hilbert modular forms. **90m:11176**
Weselmann, Uwe An elementary identity in the theory of Hecke L-functions. **90f:11031**
Yoshida, Masaaki *see* **Sasaki, Takeshi, 90e:11071a** *and* **90e:11071b**

11F46 Siegel modular groups and their modular and automorphic forms

Baily, Walter L., Jr. On the proof of the reciprocity law for arithmetic Siegel modular functions. **90c:11035**
Böcherer, Siegfried Siegel modular forms and theta series. **90i:11049**
(Gottschling, E.) *see* **Siegel, C. L., 90m:11074**
Hatada, Kazuyuki Correspondences for Hecke rings and l-adic cohomology groups on smooth compactifications of Siegel modular varieties. **90j:11036**
Igusa, Jun-ichi Problems on theta functions. **90i:11050**
Kim, Myung-Hwan[1] The canonical decomposition of Siegel modular forms. I. **90k:11060**
— *see also* **Oh, Yoon Yong; et al., 90k:11062**
Kitaoka, Yoshiyuki Fourier coefficients of certain Eisenstein series. **90m:11071**
Klingen, Helmut Über Kernfunktionen für Jacobiformen und Siegelsche Modulformen. [On kernel functions for Jacobi forms and Siegel modular forms] **90j:11037**
Koo, Ja Kyung *see* **Oh, Yoon Yong; et al., 90k:11062**
Lee, Ronnie (*with* Weintraub, Steven H.) On certain Siegel modular varieties of genus two and levels above two. **90d:11067**
— (*with* Weintraub, Steven H.) The Siegel modular variety of degree two and level four: a report. **90k:11061**
(Magnus, Wilhelm) *see* **Siegel, C. L., 90m:11074**
Oda, Takayuki (*with* Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. **90m:11072**
Oh, Yoon Yong (*with* Koo, Ja Kyung; Kim, Myung-Hwan[1]) Hecke operators and the Siegel operator. **90k:11062**
Ploch, P. Spezielle Konjugationsklassen der Modulgruppe vierten Grades und Stufe $q > 2$. [Special conjugacy classes of the modular group of degree four and level $q > 2$] **90m:11073**
Raghavan, Srinivasacharya Estimation of Fourier coefficients of Siegel modular forms. **90d:11068**
Salvati Manni, Riccardo On the holomorphic differential forms of the Siegel modular variety. **90j:11038**
Schulze-Pillot, Rainer A linear relation between theta series of degree and weight 2. **90g:11060**
Schwermer, Joachim *see* **Oda, Takayuki, 90m:11072**
Siegel, C. L. ★ Topics in complex function theory. Vol. III. **90m:11074**
(Tretkoff, M.) *see* **Siegel, C. L., 90m:11074**
Tsuyumine, Shigeaki Rings of automorphic forms which are not Cohen-Macaulay. II. **90h:11043**
Weintraub, Steven H. *see* **Lee, Ronnie, 90d:11067** *and* **90k:11061**
Yamazaki, Tadashi Jacobi forms and a Maass relation for Eisenstein series. II. **90i:11051**
Yü, Wên Ch'ing Contributions from conjugacy classes of regular elliptic elements in Sp(n, Z) to the dimension formula. II. **90d:11069**

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Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) A nonvanishing theorem for derivatives of automorphic L-functions with applications to elliptic curves. **90b:11063**
Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. **90k:14042**
Christian, Ulrich Untersuchung Selbergscher Zetafunktionen. [Investigation of Selberg zeta functions] **90g:11065**
Cogdell, J. W. (*with* Piatetski-Shapiro, I. I.) Base change for the Saito-Kurokawa representations of PGSp(4). **90b:11051**
Freitag, E. The transformation formalism of vector valued theta functions with respect to the Siegel modular group. **90d:11062**
Friedberg, Solomon *see* **Bump, Daniel; et al., 90b:11063**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 90b:11063**
Kitaoka, Yoshiyuki Modular forms of degree n and representation by quadratic forms. V. **90e:11053**
— Some remarks on representations of positive definite quadratic forms. **90k:11036**
Kohnen, Winfried (*with* Skoruppa, Nils-Peter) A certain Dirichlet series attached to Siegel modular forms of degree two. **90b:11050**
Koizumi, Shoji Theta series and the Poincaré divisor. **90m:11068**
Kudla, Stephen S. (*with* Rallis, Stephen) On the Weil-Siegel formula. **90e:11059**
— (*with* Rallis, Stephen) On the Weil-Siegel formula. II. The isotropic convergent case. **90e:11060**
Lebedev, D. R. (*with* Morozov, A. Yu.) String partition functions and hyperelliptic surfaces. **90e:81207**
Lee, Ronnie (*with* Weintraub, Steven H.) A generalization of a theorem of Hecke to the Siegel space of degree two. **90j:32038**
Li, Hung Ch'ang On 2-adic densities of degree 2. **90m:11069**
Morozov, A. Yu. *see* **Lebedev, D. R., 90e:81207**
Murase, Atsushi L-functions attached to Jacobi forms of degree n. I. The basic identity. **90k:11064**
Oka, Yoshiro On the modular imbeddings for cyclic cubic fields. **90e:11067**
Piatetski-Shapiro, I. I. *see* **Cogdell, J. W., 90b:11051**
Rallis, Stephen *see* **Kudla, Stephen S., 90e:11059** *and* **90e:11060**
Salvati Manni, Riccardo Thetanullwerte and stable modular forms. **90e:11061**
Skoruppa, Nils-Peter *see* **Kohnen, Winfried, 90b:11050**
Stark, Harold M. On modular forms of weight one from real quadratic fields and theta functions. **90c:11030**
Weintraub, Steven H. *see* **Lee, Ronnie, 90j:32038**

11F55 Other groups and their modular and automorphic forms (several variables)

Berndt, Rolf Some special features of the Jacobi group. **90k:11063**
Friedberg, Solomon Poincaré series, Kloosterman sums, trace formulas, and automorphic forms for GL(n). **90h:11044**
Goldfeld, Dorian Analytic number theory on GL(r, R). **90g:11061**
Gritsenko, V. A. Fourier-Jacobi functions in n variables. (Russian) **90a:11058**
Hoffstein, Jeffrey (*with* Murty, M. Ram) L-series of automorphic forms on GL(3, R). **90m:11075**
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Ichimura, Humio (*with* Kaneko, Masanobu) On the universal power series for Jacobi sums and the Vandiver conjecture. **90m:11162**
Kamienny, S. On $J_1(p)$ and the kernel of the Eisenstein ideal. **90m:11171**
Kaneko, Masanobu *see* **Ichimura, Humio, 90m:11162**
Livné, Ron On the conductors of mod l Galois representations coming from modular forms. **90f:11029**
Mazur, Barry C. Deforming Galois representations. **90k:11057**
Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] **90h:11047**
Ramakrishnan, Dinakar *see* **Blasius, Don, 90m:11078**
Scholl, A. J. Modular forms on noncongruence subgroups. **90k:11049**

11F85 p-adic theory, local fields [see also 14G20, 22E50]

de Shalit, Ehud Eichler cohomology and periods of modular forms on p-adic Schottky groups. **90j:11042**

Items with secondary classifications in 11F85

Baker, Andrew James Elliptic cohomology, p-adic modular forms and Atkin's operator U_p. **90i:55007**
Diamond, Fred On congruence modules associated to Λ-adic forms. **90h:11041**
Gritsenko, V. A. Factorization of Hecke polynomials of classical groups. **90b:11049**
Henniart, Guy (*with* Mestre, J.-F.) Moyenne arithmético-géométrique p-adique. (English summary) [The p-adic arithmetic-geometric mean] **90g:11075**
Kohnen, Winfried p-adic congruences for cycle integrals associated to elliptic curves with complex multiplication. **90a:11056**
Mestre, J.-F. *see* **Henniart, Guy, 90g:11075**
Schmidt, C.-G. p-adic measures attached to automorphic representations of GL(3). **90f:11032**
de Shalit, Ehud A formula for the cup product on Mumford curves. **90k:14017**
Vignéras, Marie-France Correspondance modulaire galois-quaternions pour un corps p-adique. [The Galois-quaternion modular correspondence for a p-adic field] **90j:11041**

11F99 None of the above, but in this section

Beukers, F. (*with* Heckman, Gert) Monodromy for the hypergeometric function ${}_nF_{n-1}$. **90f:11034**
Heckman, Gert *see* **Beukers, F., 90f:11034**

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Date, E. (*with* Jimbo, Michio; Miwa, Tetsuji; Okado, Masato) Solvable lattice models. **90i:82062**
Flach, Matthias Periods and special values of the hypergeometric series. **90h:11065**
Harvey, Jeffrey A. (*with* Naculich, Stephen G.) Conformal field theory and genus-zero function fields. **90b:81128**
Jimbo, Michio *see* **Date, E.; et al., 90i:82062**
Joyce, G. S. Exact results for the activity and isothermal compressibility of the hard-hexagon model. **90a:82070**
Krieg, Aloys Hecke algebras. **90m:16024**
Lam, C. S. GSO projections of modular-invariant aperiodic strings. **90f:81108**
Matsumoto, Shuji (*with* Uehara, S.; Yasui, Yukinori) Hadamard model on the super Riemann surface. **90a:58183**
Miwa, Tetsuji *see* **Date, E.; et al., 90i:82062**
Naculich, Stephen G. *see* **Harvey, Jeffrey A., 90b:81128**
Okado, Masato *see* **Date, E.; et al., 90i:82062**
Ordóñez, Carlos R. (*with* Rubin, Mark A.; Zwanziger, Daniel) Modular invariance and stochastic quantization. **90j:81077**
Rubin, Mark A. *see* **Ordóñez, Carlos R.; et al., 90j:81077**
Rühl, W. Irreducible automorphic functions and conformal field theory. (*see* **90m:81003**)
Uehara, S. *see* **Matsumoto, Shuji; et al., 90a:58183**
Yasui, Yukinori *see* **Matsumoto, Shuji; et al., 90a:58183**
Zwanziger, Daniel *see* **Ordóñez, Carlos R.; et al., 90j:81077**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields

Beukers, F. (*with* Top, Jaap) On oranges and integral points on certain plane cubic curves. **90h:11046**
Dorman, David R. Global orders in definite quaternion algebras as endomorphism rings fo reduced CM elliptic curves. **90j:11043**
Edixhoven, Bas (*with* de Groot, Arnold; Top, Jaap) Elliptic curves over the rationals with bad reduction at only one prime. **90g:11068**
Elkies, Noam D. Supersingular primes for elliptic curves over real number fields. **90i:1105**
Frey, Gerhard Links between elliptic curves and solutions of $A - B = C$. **90i:11059**
— Links between solutions of $A - B = C$ and elliptic curves. **90g:11069**
Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel′d modules. **90g:11070**
Grayson, Daniel R. The arithogeometric mean. **90g:11071**
de Groot, Arnold *see* **Edixhoven, Bas; et al., 90g:11068**
Harada, Koichiro (*with* Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. **90g:11072**
Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (*see* **90j:11004**)
Hisamatsu, Tatsuo A remark about the Taniyama-Weil conjecture for an elliptic curve defined by an equation $y^2 = x^3 + D^2x + D^3$. **90j:11044**
Kamienny, S. p-torsion in elliptic curves over subfields of $\mathbf{Q}(\mu_p)$. **90a:11061**
Koĭshibaev, K. B. An estimate for orders of Selmer groups of elliptic curves with supersingular reduction in a cyclic Γ-extension. (Russian) (*see* **90h:20005**)
Kolyvagin, V. A. The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. **90f:11035**
Kramarz, G. *see* **Zagier, Don, 90d:11072**
Kraus, Alain Quelques remarques à propos des invariants c_4, c_6 et Δ d'une courbe elliptiqu [Some remarks about the invariants c_4, c_6 and Δ of an elliptic curve] **90j:11045**
Lang, Mong-Lung *see* **Harada, Koichiro, 90g:11072**
Masser, D. W. (*with* Wüstholz, G.) Some effective estimates for elliptic curves. **90j:11046**
— Counting points of small height on elliptic curves. (French summary) **90k:11068**
Müller, Hans Helmut (*with* Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. **90m:11086**
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Murty, M. Ram On the supersingular reduction of elliptic curves. **90c:11040**
— Recent developments in elliptic curves. **90f:11036**
Parish, James L. Rational torsion in complex-multiplication elliptic curves. **90k:11069**
Rakhimov, I. S. The Selmer group of an elliptic curve. (Russian) (*see* **90h:20005**)
Rubin, Karl Descents on elliptic curves with complex multiplication. **90g:11073**
Shioda, Tetsuji The Galois representation of type E_8 arising from certain Mordell-Weil groups. **90f:11037**
— Mordell-Weil lattices and Galois representation. I. **90m:11087**
— Mordell-Weil lattices and Galois representation. II, III. **90m:11088**
Silverman, Joseph H. Recent (and not so recent) developments in the arithmetic theory of elliptic curves. **90g:11074**
Stevens, Glenn Stickelberger elements and modular parametrizations of elliptic curves. **90m:11089**
Ströher, Harald *see* **Müller, Hans Helmut; et al., 90e:11085** *and* **90m:11086**
Top, Jaap *see* **Edixhoven, Bas; et al., 90g:11068** *and* **Beukers, F., 90h:11046**
Wajngurt, Clara Solutions of specific Diophantine equations and their relationship to complex multiplication. **90i:11060**
Wüstholz, G. *see* **Masser, D. W., 90j:11046**
Zagier, Don (*with* Kramarz, G.) Numerical investigations related to the L-series of certain elliptic curves. **90d:11072**
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Bremner, Andrew Letter to the editor: "Integer points of $y^2 = x^3 - 4x + 1$" [J. Number Theory **30** (1988), no. 1, 86–93; MR 90e:11041a] by S. P. Mohanty. **90e:11041b**
— (*with* Guy, Richard K.) The delta-lambda configurations in tiling the square. **90g:11031**
Calderbank, A. R. (*with* Morton, Patrick) Quasi-symmetric 3-designs and elliptic curves. **90m:05020**
Cipra, Barry A. Getting a grip on elliptic curves. **90e:11092**
Fleckinger, Vincent Génération de bases d'entiers à partir de la courbe $y^2 = 4x^3 + 1$. [Generation of integral bases starting from the curve $y^2 = 4x^3 + 1$] **90g:11156**
Frey, Gerhard Elliptic curves and solutions of $A - B = C$. **90g:11036**
Greenberg, Ralph Nonvanishing of certain values of L-functions. **90j:11124**
Guy, Richard K. *see* **Bremner, Andrew, 90g:11031**
Hellegouarch, Yves Positive definite binary quadratic forms over $k[X]$. **90i:11037**
Hulek, K. Elliptische Kurven, abelsche Flächen und das Ikosaeder. [Elliptic curves, abelia surfaces and the icosahedron] **90h:14023**
Kamienny, S. Torsion points on elliptic curves over fields of low degree. **90j:11052**
Keating, Kevin Galois characters associated to formal A-modules. **90b:11128**
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Livné, Ron On the conductors of mod l Galois representations coming from modular form **90f:11029**
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— *see also* **Mestre, J.-F., 90g:11078**
Ota, Kaori On P-integrality of a formal group obtained from a hypergeometric function. **90f:14030**
Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. **90m:14017**
— Application of ramified coverings in the theory of Diophantine equations. **90j:11055**
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11G07 Elliptic curves over local fields

Andrīĭchuk, V. I. Cohomology of the group of ideal classes and generalized Jacobians. (Ukrainian. Russian summary) **90j:11047**
— Some problems connected with Tate-Shafarevich pairing in elliptic curves over pseudo-local fields. (Ukrainian. Russian summary) **90j:11048**
Henniart, Guy (*with* Mestre, J.-F.) Moyenne arithmético-géométrique p-adique. (English summary) [The p-adic arithmetic-geometric mean] **90g:11075**
Mestre, J.-F. *see* **Henniart, Guy, 90g:11075**

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Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] **90a:11141**
Jones, John William Iwasawa L-functions for multiplicative abelian varieties. **90m:11094**
Keating, Kevin Lifting endomorphisms of formal A-modules. **90e:14048**
Klapper, A. Selmer group estimates arising from the existence of canonical subgroups. **90i:14046**

11G10 Abelian varieties of dimension >1

(Brown, Martin Lawrence) *see* **Serre, Jean-Pierre, 90e:11086**
Coleman, Robert F. A remark on kernels of reduction. **90a:11062**
Grant, David Coates-Wiles towers in dimension two. **90f:11038**
Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. **90d:11073**
McCallum, William G. On the Shafarevich-Tate group of the Jacobian of a quotient of the Fermat curve. **90b:11059**
Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] **90h:11047**
Ooe, Takeshi (*with* Top, Jaap) On the Mordell-Weil rank of an abelian variety over a number field. **90g:11076**
Oort, Frans Endomorphism algebras of abelian varieties. **90j:11049**
Schneider, Peter The μ-invariant of isogenies. **90g:11077**
Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. **90e:11086**
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Zarkhin, Yu. G. Torsion of abelian varieties over GL(2)-extensions of number fields. **90i:11061**

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André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984–85*, 1–22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) **90h:14061**
— ★ G-functions and geometry. **90k:11087**
Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] **90k:14046**
Bertrand, D. Galois representations and transcendental numbers. **90a:11077**
Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. **90k:14042**
Denert, Marleen Zeta functions of arithmetic orders. **90a:11139**
Ditters, E. J. On the classification of commutative formal group laws over p-Hilbert domains and a finiteness theorem for higher Hasse-Witt matrices. **90h:14062**
Green, William Heights in families of abelian varieties. **90k:14044**
Hatada, Kazuyuki Correspondences for Hecke rings and l-adic cohomology groups on smooth compactifications of Siegel modular varieties. **90j:11036**
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Mai, Liem Lower bounds for the ranks of CM types. **90g:11148**
Philippon, P. (*with* Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] **90e:11113**
de Shalit, Ehud Eichler cohomology and periods of modular forms on p-adic Schottky groups. **90j:11042**
Suwa, Noriyuki (*with* Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. **90j:11053**
Waldschmidt, M. *see* **Philippon, P., 90e:11113**
Yui, Noriko *see* **Suwa, Noriyuki, 90j:11053**

11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

Anderson, Greg W. On a question arising from complex multiplication theory. **90e:11087**
Fleckinger, Vincent Modèle de Deuring et monogénéité des anneaux d'entiers des corps de rayons d'un corps quadratique imaginaire dans le cas 3 ramifié. [Deuring model and monogeneity of the rings of integers of the ray class field of an imaginary quadratic field when 3 is ramified] **90b:11060**
Hazama, Fumio Demjanenko matrix, class number, and Hodge group. **90m:11090**
Teitelbaum, Jeremy On Drinfel'd's universal formal group over the p-adic upper half plane. **90j:11050**
Wingberg, Kay A Riemann-Hurwitz formula for the Selmer group of an elliptic curve with complex multiplication. **90b:11061**

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Colmez, Pierre Périodes de variétés abéliennes à multiplication complexe et dérivées de fonctions L d'Artin en $s = 0$. (English summary) [Periods of abelian varieties with complex multiplication and derivatives of Artin L-functions at $s = 0$] **90h:11106**
— Algébricité de valeurs spéciales de fonctions L. [Algebraicity of special values of L-functions] **90f:11030**
Flach, Matthias Periods and special values of the hypergeometric series. **90h:11065**
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Gherardelli, Francesco Quasi-abelian varieties with complex multiplication. (Italian. English summary) **90k:32097**
Klingenberg, Christoph Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. **90h:11049**
Kohnen, Winfried p-adic congruences for cycle integrals associated to elliptic curves with complex multiplication. **90a:11056**
Mai, Liem Lower bounds for the ranks of CM types. **90g:11148**
McCallum, William G. On the Shafarevich-Tate group of the Jacobian of a quotient of the Fermat curve. **90b:11059**
Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] **90h:11047**
Murty, M. Ram Recent developments in elliptic curves. **90f:11036**
Parish, James L. Rational torsion in complex-multiplication elliptic curves. **90k:11069**
Rubin, Karl Descents on elliptic curves with complex multiplication. **90g:11073**
Schertz, Reinhard Konstruktion von Potenzganzheitsbasen in Srahlklassenkörpern über imaginär-quadratischen Zahlkörpern. [Construction of power integral bases in ray class fields over imaginary quadratic number fields] **90g:11150**
Shimura, Goro Yutaka Taniyama and his time. Very personal recollections. **90b:01090**
Stevens, Glenn The Eisenstein measure and real quadratic fields. **90m:11077**
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Taylor, Martin J. Structure galoisienne des anneaux d'entiers et groupes de Mordell-Weil. [Galois structure of rings of integers, and Mordell-Weil groups] **90d:11125**
Wajngurt, Clara Solutions of specific Diophantine equations and their relationship to complex multiplication. **90i:11060**
Weselmann, Uwe An elementary identity in the theory of Hecke L-functions. **90f:11031**

11G16 Elliptic and modular units

Lecacheux, Odile Unités d'une famille de corps cycliques réeles de degré 6 liés à la courbe modulaire $X_1(13)$. (English summary) [Units of a family of real cyclic fields of degree 6 associated with the modular curve $X_1(13)$] **90i:11062**
Murty, V. Kumar (*with* Ramakrishnan, Dinakar) The Manin-Drinfel'd theorem and Ramanujan sums. **90m:11091**
Ramakrishnan, Dinakar *see* **Murty, V. Kumar, 90m:11091**
Scholl, A. J. On modular units. **90j:11051**

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Baker, Andrew James Elliptic cohomology, p-adic modular forms and Atkin's operator U_p. **90i:55007**
Cassou-Noguès, Ph. (*with* Taylor, Martin J.) Unités modulaires et monogénéité d'anneaux d'entiers. [Modular units and monogeneity of rings of integers] **90g:11155**
Kozuka, Kazuhito On two variable p-adic L-functions and a p-adic class number formula. **90g:11158**
Nakamula, Ken Elliptic units and the class numbers of non-Galois fields. **90g:11154**
Taylor, Martin J. *see* **Cassou-Noguès, Ph., 90g:11155**
Yager, Rodney I. Special values of L-functions and height two formal groups. **90f:11096**

11G18 Arithmetic of modular and Shimura varieties

Gillard, Roland Étude d'une famille modulaire de variétés abéliennes. [Study of a modular family of abelian varieties] **90k:11070**
Harris, Michael Functorial properties of toroidal compactifications of locally symmetric varieties. **90h:11048**
Kamienny, S. Torsion points on elliptic curves over fields of low degree. **90j:11052**
Klingenberg, Christoph Survey of the proof of the Tate conjectures for Hilbert-Blumenthal surfaces. **90h:11049**
Kuga, Michio On a conjectural equation of certain kinds of surfaces. **90e:11088**
Mestre, J.-F. (*with* Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m-ième. [Semistable Weil curves with discriminant an mth power] **90g:11078**
Oesterlé, J. *see* **Mestre, J.-F., 90g:11078**
Petri, Monica Arithmetic classification of Kuga fiber varieties of quaternion type. **90k:11071**
Ulmer, D. L. On universal elliptic curves over Igusa curves. **90m:11092**

Items with secondary classifications in 11G18

Baily, Walter L., Jr. On the proof of the reciprocity law for arithmetic Siegel modular functions. **90c:11035**
Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] **90k:14046**
Blasius, Don (*with* Rogawski, J. D.) Galois representations for Hilbert modular forms. **90b:11046**

Buium, Alexandru Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] **90b:14010**

(Clozel, Laurent) *see* **Automorphic forms, Shimura varieties, and L-functions, 90j:11002** *and* **90j:11003**

Dorman, David R. Singular moduli, modular polynomials, and the index of the closure of $\mathbf{Z}[j(\tau)]$ in $\mathbf{Q}(j(\tau))$. **90k:11149**

Horie, Kuniaki (*with* Ônishi, Yoshihiro) The existence of certain infinite families of imaginary quadratic fields. **90e:11157**

Jordan, Bruce W. (*with* Livné, Ron) Conjecture "epsilon" for weight $k > 2$. **90d:11057**

Kudla, Stephen S. (*with* Millson, John J.) Tubes, cohomology with growth conditions and an application to the theta correspondence. **90k:11054**

Lai, K. F. On the relative trace formula. **90b:11056**

Lee, Ronnie (*with* Weintraub, Steven H.) The Siegel modular variety of degree two and level four: a report. **90k:11061**

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(Milne, James S.) *see* **Automorphic forms, Shimura varieties, and L-functions, 90j:11002** *and* **90j:11003**

Ônishi, Yoshihiro *see* **Horie, Kuniaki, 90e:11157**

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— ★ Automorphic forms, Shimura varieties, and L-functions. Vol. II. **90j:11003**

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— ★ Automorphic forms, Shimura varieties, and L-functions. Vol. II. **90j:11003**

11G20 Curves over finite and local fields

Coleman, Robert F. Computing stable reductions. **90h:11050**

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Fishman, V. M. On the structure of the Tate module. **90k:11073**

Freije, Richard M. A p-adic analogue of the Gauss-Bonnet theorem for certain Mumford curves. **90e:11089**

Matignon, Michel Genre et genre residuel des corps de fonctions valués. [Genus and residual genus of valuated function fields] **90a:11063**

Saito, Takeshi The discriminants of curves of genus 2. **90c:11041**

Stöhr, Karl-Otto (*with* Viana, Paulo) A study of Hasse-Witt matrices by local methods. **90d:11074**

Vainsencher, I. On Stöhr-Voloch's proof of Weil's theorem. **90h:11051**

Viana, Paulo *see* **Stöhr, Karl-Otto, 90d:11074**

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Ando, Kiyoshi *see* **Mizuno, Hirobumi; et al., 90a:94043**

Chekhov, L. O. (*with* Mironov, A. D.; Zabrodin, A. V.) Multiloop calculations in p-adic string theory and Bruhat-Tits trees. **90k:14016**

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Ditters, E. J. (*with* Hoving, Simen J.) On the connected part of the covariant Tate p-divisible group and the ζ-function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. **90e:14047**

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11G25 Varieties over finite and local fields

Étesse, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L-functions in crystalline cohomology] **90c:11042**

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Sen, Shankar The analytic variation of p-adic Hodge structure. **90b:11062**

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11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields

Beckmann, Sybilla Ramified primes in the field of moduli of branched coverings of curves. **90i:11063**

Coleman, Robert F. Torsion points on abelian étale coverings of $\mathbf{P}^1 - \{0, 1, \infty\}$. **90a:11064**

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11G35 Varieties over global fields

Colliot-Thélène, Jean-Louis Arithmétique sur certaines hypersurfaces cubiques. [Arithmetic on certain cubic hypersurfaces] **90d:11076**

— (*with* Salberger, Per) Arithmetic on some singular cubic hypersurfaces. **90e:11091**

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Minchev, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) **90a:11065**

Moret-Bailly, Laurent Groupes de Picard et problèmes de Skolem. I, II. [Picard groups and Skolem problems. I, II] **90i:11065**

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Kato, Kazuya A generalization of class field theory. (Japanese) **90g:11080**

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11G40 *L*-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture

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11G45 Geometric class field theory [see also 11R37]

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Kato, Kazuya A generalization of class field theory. (Japanese) **90g:11080**

— *see also* **Ihara, Yasutaka, 90d:11077**

Nart, Enric The Bloch complex in codimension one and arithmetic duality. **90j:11057**

Saito, Shuji Class field theory for two-dimensional local rings. **90h:11053**

— Arithmetic theory of arithmetic surfaces. **90f:11043**

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Fesenko, I. B. A generalized symbol in multidimensional local fields. (Russian) **90d:11133**

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11G99 None of the above, but in this section

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11Hxx Geometry of numbers

Erdős, Paul (*with* Gruber, Peter M.; Hammer, Joseph) ★ Lattice points. **90g:11081**

Gruber, Peter M. *see* **Erdős, Paul; et al., 90g:11081**

Hammer, Joseph *see* **Erdős, Paul; et al., 90g:11081**

11H06 Lattices and convex bodies [see also 11P21]

Banar′, V. V. Bravais types of lattices of three-dimensional Minkowski space whose holohedron contains rotations around only one real axis. (Russian) (*see* **90h:11001**)

Chaładus, Stefan A note on a decomposition of integer vectors. (Russian summary) **90m:11097**

Conway, John Horton (*with* Sloane, N. J. A.) Low-dimensional lattices. I. Quadratic forms of small determinant. **90a:11071**

— (*with* Sloane, N. J. A.) Low-dimensional lattices. II. Subgroups of GL(n, **Z**). **90a:11072**

Erdahl, Robert M. *see* **Ryshkov, S. S., 90d:11078** *and* **90f:11044**

Jungnickel, Dieter (*with* Leclerc, Matthias) A class of lattices. **90a:11069**

Koch, Helmut (*with* Venkov, B. B.) Über ganzzahlige unimodulare euklidische Gitter. [On integral unimodular Euclidean lattices] **90g:11082**

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Narzullaev, Kh. N. *see* **Skubenko, B. F., 90g:11084**

Ryshkov, S. S. (*with* Erdahl, Robert M.) The empty sphere. II. **90d:11078**

— (*with* Erdahl, Robert M.) Stepwise construction of L-bodies of lattices. **90f:11044**

Schinzel, A. A decomposition of integer vectors. III. (Russian summary) **90m:11096**

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Skubenko, B. F. (*with* Narzullaev, Kh. N.) On an analogue of Kronecker's theorem. (Russian) **90g:11084**

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Items with secondary classifications in 11H06

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Cartier, Pierre Classification des systèmes quasi cristallins de type icosaédrique. (English summary) [Classification of icosahedral quasicrystalline systems] **90d:82030**

Conway, John Horton (*with* Sloane, N. J. A.) Low-dimensional lattices. IV. The mass formula. **90a:11074**

— (*with* Sloane, N. J. A.) Low-dimensional lattices. V. Integral coordinates for integral lattices. **90m:11100**

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Furst, Merrick L. (*with* Kannan, Ravi) Succinct certificates for almost all subset sum problems. **90i:11148**

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Just, Bettina Integer relations among algebraic numbers. **90m:11109**

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Uhrin, B. Brunn-Minkowski-Lusternik inequality, its sharpenings, extensions and some applications. (Hungarian summary) **90c:52024**
Vallée, Brigitte (*with* Girault, Marc; Toffin, Philippe) How to guess lth roots modulo n by reducing lattice bases. **90k:11168**
— La réduction des réseaux. Autour de l'algorithme de Lenstra, Lenstra, Lovász. (English summary) [Lattice reduction: the Lenstra-Lenstra-Lovász algorithm] **90i:11149**

11H16 Nonconvex bodies

Uhrin, B. On the star number of a set-lattice. (Hungarian summary) **90f:11045**

11H25 Minkowski-Hlawka theorem; Siegel mean value theorem

Il'in, I. V. A remark on bounds in the inhomogeneous Minkowski conjecture for large dimensions. (Russian) (*see* **90h:11001**)
Uhrin, B. Dispersions, projections and measure of covering in Euclidean spaces. (Hungarian summary) **90f:11046**

11H31 Lattice packing and covering [see also 05B40, 52A45]

Khuramov, A. The densest packing by balls of a single-type of $\mathbf{R}^n$ for $n \leq 24$. (Russian) (*see* **90e:00005**)
Matsumoto, Takeo Packing of ellipsoids. (Japanese) **90j:11058**
Ozeki, Michio Ternary code construction of even unimodular lattices. **90i:11067**
Rodin, Burt Schwarz's lemma for circle packings. II. **90m:11099**
Shekhovtsov, S. B. (*with* Yakovlev, S. V.) A class of problems of a lattice covering of a bounded domain. (Russian) **90g:11085**
Yakovlev, S. V. *see* **Shekhovtsov, S. B., 90g:11085**
Yugaĭ, S. A. Application of demonstrative calculations on a computer to improving the estimate of the largest density of a packing of equal balls. (Russian) **90f:11047**

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Cusick, Thomas W. Units in real cyclic quartic fields. **90m:11166**
(Escher, M. C.) *see* **Schattschneider, Doris, 90b:01054**
Evdokimov, A. A. (*with* Malyugin, S. A.) The "snake in a box" code and paths in a lattice on a torus. (Russian) **90m:94048**
Graham, R. L. (*with* Sloane, N. J. A.) Penny-packing and two-dimensional codes. **90j:52016**
Heppes, A. On the solidity of packings of incongruent circles. I. (Hungarian summary) **90c:52029**
Kabatyanskiĭ, G. A. (*with* Panchenko, V. I.) Packings and coverings of the Hamming space by balls of unit radius. **90j:94031**
Klein, Rolf Voronoĭ diagrams in the Moscow metric (extended abstract). (*see* **90h:68091**)
Leech, John (*with* Tarnai, T.) Arrangements of 22 circles on a sphere. **90k:52028**
van Lint, J. H. Recent results on covering problems. **90i:94011**
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Panchenko, V. I. Packings and coverings over an arbitrary alphabet. **90j:94032**
— *see also* **Kabatyanskiĭ, G. A., 90j:94031**
Pianzola, A. (*with* Weiss, Alfred R.) Monstrous E_{10}'s and a generalization of a theorem of L. Solomon. **90k:22007**
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Pottie, Gregory J. (*with* Taylor, Desmond P.) Sphere-packing upper bounds on the free distance of trellis codes. **90a:94046**
Rodin, Burt (*with* Sullivan, Dennis) The convergence of circle packings to the Riemann mapping. **90c:30007**
Schattschneider, Doris The Pólya-Escher connection. **90b:01054**
Simonis, Juriaan Covering radius: improving on the sphere-covering bound. **90h:94046**
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Sullivan, Dennis *see* **Rodin, Burt, 90c:30007**
Tamari, Fumikazu l intersectional empty sets (or l-IE sets) and linear codes. **90c:94033**
Tarnai, T. *see* **Leech, John, 90k:52028**
Taylor, Desmond P. *see* **Pottie, Gregory J., 90a:94046**
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Wills, J. M. A counterpart to Oler's lattice-point theorem. **90m:11098**

11H41 Miscellaneous problems

Grekos, Georges Sur le nombre de points entiers d'une courbe convexe. (English summary) [On the number of integer points of a convex curve] **90e:11095**
Niizeki, Komajiro Self-similarity of quasilattices in two dimensions. I. The n-gonal quasilattice. **90k:11078**
— Self-similarity of quasilattices in two dimensions. II. The "non-Bravais-type" n-gonal quasilattice. **90k:11079**

Items with secondary classifications in 11H41

Reznick, Bruce Forms derived from the arithmetic-geometric inequality. **90i:11043**

11H46 Products of linear forms

Akramov, U. A. An upper bound on the product of six real linear forms. (Russian) **90f:11048**
Grover, V. K. The asymmetric product of three inhomogeneous linear forms. **90g:11086**
Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) **90a:11070**

Items with secondary classifications in 11H46

Ball, Keith (*with* Pajor, Alain) Convex bodies with few faces. **90m:52011**
Pajor, Alain *see* **Ball, Keith, 90m:52011**

11H50 Minima of forms

Abdullaev, N. S. Functions that are connected with the theory of indeterminate binary quadratic forms. (Russian) **90c:11043**
Conway, John Horton (*with* Sloane, N. J. A.) Low-dimensional lattices. III. Perfect forms. **90a:11073**
— (*with* Sloane, N. J. A.) Errata: "Low-dimensional lattices. III. Perfect forms" [Proc. Roy. Soc. London Ser. A **418** (1988), no. 1854, 43–80; MR 90a:11073]. **90j:11059**
Cook, Roger J. Small fractional parts of additive forms. **90g:11087**
Dumir, V. C. (*with* Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. **90d:11079**
Grover, V. K. *see* **Dumir, V. C., 90d:11079**
Sloane, N. J. A. *see* **Conway, John Horton, 90a:11073** *and* **90j:11059**

Items with secondary classifications in 11H50

Asanov, T. U. Transfer theorems in the inhomogeneous Minkowski conjecture. (Russian) **90b:11064**
Bergé, A.-M. (*with* Martinet, Jacques) Sur un problème de dualité lié aux sphères en géométrie des nombres. (English summary) [A duality problem associated with spheres in the geometry of numbers] **90g:11088**
Kratko, M. I. (*with* Yanovich, I. I.) A Diophantine Markov equation and its generalizations. (Russian) **90m:11101**
Martinet, Jacques *see* **Bergé, A.-M., 90g:11088**
Skubenko, B. F. Minima of a decomposable cubic form in three variables. (Russian) **90a:11070**
Yanovich, I. I. Some cases of solution of the generalized Markov equation. (Russian) **90k:11031**
— *see also* **Kratko, M. I., 90m:11101**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Bergé, A.-M. (*with* Martinet, Jacques) Sur un problème de dualité lié aux sphères en géométrie des nombres. (English summary) [A duality problem associated with spheres in the geometry of numbers] **90g:11088**
Conway, John Horton (*with* Sloane, N. J. A.) Low-dimensional lattices. IV. The mass formula. **90a:11074**
— (*with* Sloane, N. J. A.) Low-dimensional lattices. V. Integral coordinates for integral lattices. **90m:11100**
Dani, S. G. (*with* Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) **90d:11080**
Kratko, M. I. (*with* Yanovich, I. I.) A Diophantine Markov equation and its generalizations. (Russian) **90m:11101**
Margulis, G. A. *see* **Dani, S. G., 90d:11080**
Martinet, Jacques *see* **Bergé, A.-M., 90g:11088**
Rickert, Neil W. Efficient reduction of quadratic forms. **90f:11049**
Schlickewei, Hans Peter (*with* Schmidt, Wolfgang M.) Isotrope Unterräume rationaler quadratischer Formen. [Isotropic subspaces of rational quadratic forms] **90h:11056**
Schmidt, Wolfgang M. *see* **Schlickewei, Hans Peter, 90h:11056**
Shushbaev, S. Sh. On determining the integral equivalence of perfect forms. (Russian) **90f:11050**
— A method for determining integer equivalence of positive-definite quadratic forms. (Russian) **90d:11081**
— A Voronoĭ neighborhood of the perfect form $\varphi_{20}(x_1, \cdots, x_7)$. (Russian) **90h:11057**
Sloane, N. J. A. *see* **Conway, John Horton, 90a:11074** *and* **90m:11100**
Teterin, Yu. G. An approach to reduction theories. (Russian) (*see* **90h:11001**)
Yanovich, I. I. *see* **Kratko, M. I., 90m:11101**

Items with secondary classifications in 11H55

Bannai, Etsuko Positive definite unimodular lattices with trivial automorphism groups. **90j:11030**
Borel, A. (*with* Prasad, Gopal) Valeurs de formes quadratiques aux points entiers. (English summary) [Values of quadratic forms at integral points] **90j:11031**
Conrey, J. Brian (*with* Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. **90f:35119**
Dani, S. G. (*with* Margulis, G. A.) Values of quadratic forms at primitive integral points. **90k:22013b**
Duke, W. (*with* Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. **90m:11051**
Dumir, V. C. (*with* Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. **90d:11079**
Engel, Peter Mathematical problems in modern crystallography. **90e:82071**
Girault, Marc *see* **Vallée, Brigitte; et al., 90f:94035**

Grover, V. K. *see* **Dumir, V. C., 90d:11079**
Kubenskiĭ, M. N. Theory of rotations. (Russian) (*see* **90h:11001**)
Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. **90j:11032**
Li, De Lang (*with* Lu, Hong Wen) Quadratic forms and Hermitian forms. **90b:11031**
Lu, Hong Wen *see* **Li, De Lang, 90b:11031**
Margulis, G. A. Discrete subgroups and ergodic theory. **90k:22013a**
— *see also* **Dani, S. G., 90k:22013b**
Mushtaq, Q. Reduced indefinite binary quadratic forms and orbits of the modular group. (Serbo-Croatian summary) **90d:11044**
Ozeki, Michio Ternary code construction of even unimodular lattices. **90i:11067**
Prasad, Gopal *see* **Borel, A., 90j:11031**
Schulze-Pillot, Rainer *see* **Duke, W., 90m:11051**
Shushbaev, S. Sh. Local minima of the Epstein zeta function. **90k:11040**
Smiley, Michael W. *see* **Conrey, J. Brian, 90f:35119**
Toffin, Philippe *see* **Vallée, Brigitte; et al., 90f:94035**
Vallée, Brigitte (*with* Girault, Marc; Toffin, Philippe) How to break Okamoto's cryptosystem by reducing lattice bases. **90f:94035**
Voskresenskiĭ, V. E. Calculation of local volumes in the Siegel-Tamagawa formula. **90h:11055**

11H60 Mean value and transfer theorems

Asanov, T. U. Transfer theorems in the inhomogeneous Minkowski conjecture. (Russian) **90b:11064**

11H99 None of the above, but in this section

Gruber, Boris Reduced cells based on extremal principles. **90f:11051**

Items with secondary classifications in 11H99

Brualdi, Richard A. (*with* Pless, Vera S.; Wilson, Richard M.) Short codes with a given covering radius. **90g:94016**
Harborth, Heiko (*with* Oertel, Philipp; Prellberg, Thomas) No-three-in-line for seventeen and nineteen. **90f:05041**
Jegier, Jadwiga (*with* Rycerz, Anna) An integer version of Weyl's theorem. (Polish summary) **90h:90120**
Oertel, Philipp *see* **Harborth, Heiko; et al., 90f:05041**
Paysant-Le Roux, R. Calibre d'un corps global. [Caliber of a global field] **90e:11165**
Pless, Vera S. *see* **Brualdi, Richard A.; et al., 90g:94016**
Prellberg, Thomas *see* **Harborth, Heiko; et al., 90f:05041**
Rycerz, Anna *see* **Jegier, Jadwiga, 90h:90120**
Wilson, Richard M. *see* **Brualdi, Richard A.; et al., 90g:94016**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. **90e:11096**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90e:11096**
(Ramanujan, Srinivasa) *see* **Waldschmidt, M., 90g:11089**
Waldschmidt, M. Some transcendental aspects of Ramanujan's work. **90g:11089**
Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J04 Homogeneous approximation to one number

Kiss, P. (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. **90j:11060a**
— (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. **90j:11060b**
van Ravenstein, Tony *see* **Winley, Graham; et al., 90i:11068**
Schuppar, Berthold Gute rationale Näherungen für reelle Zahlen. [Good rational approximations for real numbers] **90m:11102**
Tichy, R. F. *see* **Kiss, P., 90j:11060a** *and* **90j:11060b**
Tognetti, Keith *see* **Winley, Graham; et al., 90i:11068**
Winley, Graham (*with* Tognetti, Keith; van Ravenstein, Tony) Hurwitz's theorem and the continued fraction with constant terms. **90i:11068**

Items with secondary classifications in 11J04

Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. **90m:11120**
Tong, Jing Cheng A theorem on approximation of irrational numbers by simple continued fractions. **90e:11101**

11J06 Markov and Lagrange spectra and generalizations

Cusick, Thomas W. (*with* Flahive, Mary E.) ★ The Markoff and Lagrange spectra. **90i:11069**
Flahive, Mary E. *see* **Cusick, Thomas W., 90i:11069**
Goldman, Jay R. Hurwitz sequences, the Farey process, and general continued fractions. **90b:11065**
Prasad, K. C. A note on asymmetric approximations. **90f:11052**
— On gaps of Lagrange spectrum. **90i:11070**

Items with secondary classifications in 11J06

Haas, Andrew Howard Diophantine approximation on hyperbolic orbifolds. **90c:11031**
Yanovich, I. I. Solutions of the generalized Diophantine equation of Markov for $k > (n+11)/6$. (Russian) **90f:11020**

11J13 Simultaneous homogeneous approximation, linear forms

Ably, Mohammed Mesure d'approximation simultanée. (English summary) [Simultaneous approximation measure] **90g:11090**
Cusick, Thomas W. Products of simultaneous approximations of rational numbers. **90i:11071**
D'Souza, Harry Trapping a real number between adjacent rationals. **90i:11072**
Harman, Glyn Simultaneous Diophantine approximation with primes. **90g:11091**
Katsurada, Masanori Linear independence measures for values of Heine series. **90f:11053**
de Mathan, B. Exposants d'approximation. [Exponents of approximation] **90d:11083**
Podsypanin, E. V. Simultaneous Diophantine approximations of algebraic numbers and Littlewood's conjecture. (Russian) (*see* **90h:11001**)
Schmidt, Wolfgang M. The subspace theorem in Diophantine approximations. **90d:11084**
Vojta, Paul A refinement of Schmidt's subspace theorem. **90f:11054**

Items with secondary classifications in 11J13

Bernik, V. I. (*with* Markovich, N. I.) Diophantine approximations with coefficients that depend on a parameter. (Russian. English summary) **90a:11080**
Everest, G. R. A "Hardy-Littlewood" approach to the S-unit equation. **90g:11124**
Håstad, J. (*with* Just, Bettina; Lagarias, J. C.; Schnorr, C.-P.) Polynomial time algorithms for finding integer relations among real numbers. **90g:11171**
Just, Bettina *see* **Håstad, J.; et al., 90g:11171**
Lagarias, J. C. *see* **Håstad, J.; et al., 90g:11171**
Markovich, N. I. *see* **Bernik, V. I., 90a:11080**
Philippon, P. (*with* Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] **90e:11113**
Schnorr, C.-P. *see* **Håstad, J.; et al., 90g:11171**
Väänänen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p-adic exponential function. **90m:11105**
Waldschmidt, M. *see* **Philippon, P., 90e:11113**

11J17 Approximation by numbers from a fixed field

Bombieri, E. (*with* van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. **45** (1988), no. 2, 233–248; MR 89i:11075]. **90m:11103**
van der Poorten, A. J. Remarks on Roth's theorem. **90g:11092**
— *see also* **Bombieri, E., 90m:11103**

Items with secondary classifications in 11J17

Amoroso, Francesco Some remarks about algebraic independence measures in high dimension. (French summary) **90i:11076**
Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. **90f:11067**

11J20 Inhomogeneous linear forms

Samushenok, I. N. An arithmetic characteristic of irrational numbers in a linear inhomogeneous problem in the theory of Diophantine approximations. (Russian) **90k:11080**

Items with secondary classifications in 11J20

Narzullaev, Kh. N. *see* **Skubenko, B. F., 90g:11084**
Philippon, P. (*with* Waldschmidt, M.) Lower bounds for linear forms in logarithms. **90b:11072**
Skubenko, B. F. (*with* Narzullaev, Kh. N.) On an analogue of Kronecker's theorem. (Russian) **90g:11084**
Waldschmidt, M. *see* **Philippon, P., 90b:11072**
Wang, Lian Xiang (*with* Yuan, Jin) Simultaneous approximation lattices of p-adic numbers. **90j:11062**
Yuan, Jin *see* **Wang, Lian Xiang, 90j:11062**

11J25 Diophantine inequalities [see also 11D75]

Bernik, V. I. Diophantine approximations on differentiable manifolds. (Russian. English summary) **90k:11081**
Mashanov, V. I. Metric properties of a class of polynomials in several variables. (Russian. English summary) **90k:11082**

Items with secondary classifications in 11J25

Delmer, Francine (*with* Deshouillers, Jean-Marc) On the computation of $g(k)$ in Waring's problem. **90i:11109**
Deshouillers, Jean-Marc *see* **Delmer, Francine, 90i:11109**
Lang, Serge Old and new conjectured Diophantine inequalities. **90k:11032**
Mazurov, M. E. A geometric method for studying solutions of Diophantine inequalities. (Russian) **90k:11033**
Mueller, Julia Good rational approximation derived from Thue's inequality. **90d:11043**
Prasad, K. C. A note on asymmetric approximations. **90f:11052**
Schmidt, Wolfgang M. The number of solutions of norm form equations. **90d:11041**
Srinivasan, Seshadri A Diophantine inequality with prime variables. **90a:11042**
Wang, Yuan[1] Diophantine equations and Diophantine inequalities in algebraic number fields. **90b:11027**
— Diophantine inequalities for forms in an algebraic number field. **90c:11021**

11J37 Products of n linear forms in n variables ($n \geq 2$) [See mainly 11H46]

Items with secondary classifications in 11J37

Akramov, U. A. An upper bound on the product of six real linear forms. (Russian) **90f:11048**

11J45 Minima of quadratic forms in more than two variables [See mainly 11H50]

Items with secondary classifications in 11J45

Dumir, V. C. (*with* Grover, V. K.) Some asymmetric inequalities for nonhomogeneous indefinite binary quadratic forms. **90d:11079**

Grover, V. K. *see* **Dumir, V. C., 90d:11079**

11J54 Small fractional parts of polynomials and generalizations

Friedlander, John B. Fractional parts of sequences. **90m:11104**

Huxley, M. N. The fractional parts of a smooth sequence. **90b:11066**

Items with secondary classifications in 11J54

Gross, Fred (*with* Osgood, Charles F.) Diophantine approximation to the value distribution theory of meromorphic functions. **90m:30037**

Osgood, Charles F. *see* **Gross, Fred, 90m:30037**

11J61 Approximation in non-Archimedean valuations

Bézivin, J.-P. (*with* Robba, P.) Solutions rationnelles d'équations différentielles. Application à un problème de transcendance. [Rational solutions of differential equations. Application to a transcendence problem] **90j:11061**

Knopfmacher, Arnold (*with* Knopfmacher, John) A binomial product representation for p-adic numbers. **90e:11097**

— (*with* Knopfmacher, John) Series expansions in p-adic and other non-Archimedean fields. **90i:11073**

— (*with* Knopfmacher, John) p-adic and non-Archimedean product representations. **90e:11098**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90e:11097; 90e:11098** *and* **90i:11073**

Nesterenko, Yu. V. Estimates for the number of zeros of certain functions. **90d:11085**

Nishioka, Kumiko p-adic transcendental numbers. **90e:11099**

Robba, P. *see* **Bézivin, J.-P., 90j:11061**

Väänänen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p-adic exponential function. **90m:11105**

Wang, Lian Xiang (*with* Yuan, Jin) Simultaneous approximation lattices of p-adic numbers. **90j:11062**

Yuan, Jin An approximation theorem for p-adic algebraic numbers. (Chinese. English summary) **90d:11086**

— *see also* **Wang, Lian Xiang, 90j:11062**

Items with secondary classifications in 11J61

Bedocchi, Edmondo Remarks on periods of p-adic continued fractions. (Italian summary) **90g:11093**

Bézivin, J.-P. (*with* Robba, P.) A new p-adic method for proving irrationality and transcendence results. **90e:11107**

Bombieri, E. (*with* van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. **45** (1988), no. 2, 233–248; MR 89i:11075]. **90m:11103**

Kuukasjärvi, M. (*with* Matala-Aho, T.; Väänänen, K.) On irrationality measures of certain P-adic numbers. **90k:11088**

Matala-Aho, T. *see* **Kuukasjärvi, M.; et al., 90k:11088**

van der Poorten, A. J. *see* **Bombieri, E., 90m:11103**

Robba, P. *see* **Bézivin, J.-P., 90e:11107**

Schmidt, Klaus D. Mixing automorphisms of compact groups and a theorem by Kurt Mahler. **90c:28031**

Shidlovskii, A. B. On the problem of algebraic independence of values of E-functions at algebraic points. **90e:11111**

Väänänen, K. *see* **Kuukasjärvi, M.; et al., 90k:11088**

Yu, Kun Rui Linear forms in p-adic logarithms. **90k:11093**

Zhu, Yao Chen On a criterion of algebraic independence of numbers. **90h:11064**

11J68 Rational approximation to algebraic numbers

Items with secondary classifications in 11J68

Bombieri, E. (*with* van der Poorten, A. J.) Corrigenda: "Some quantitative results related to Roth's theorem" [J. Austral. Math. Soc. Ser. A. **45** (1988), no. 2, 233–248; MR 89i:11075]. **90m:11103**

Buchmann, J. (*with* Pethő, Attila) Computation of independent units in number fields by Dirichlet's method. **90e:11162**

Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**

Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] **90k:03056**

Pethő, Attila *see* **Buchmann, J., 90e:11162**

van der Poorten, A. J. *see* **Bombieri, E., 90m:11103**

11J69 Simultaneous rational approximation to algebraic numbers

Items with secondary classifications in 11J69

Cusick, Thomas W. Products of simultaneous approximations of rational numbers. **90i:11071**

Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**

Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Bedocchi, Edmondo Remarks on periods of p-adic continued fractions. (Italian summary) **90g:11093**

Dzenskevich, E. A. (*with* Shapiro, A. P.) On the expansion of irrationalities of third and fourth degree into a continued fraction. (Russian) **90k:11083**

Irwin, M. C. Geometry of continued fractions. **90j:11063**

Ito, Shunji On Legendre's theorem related to Diophantine approximations. **90b:11067**

Jager, H. (*with* Kraaikamp, C.) On the approximation by continued fractions. **90k:11084**

Kopetzky, Hans G. Some results on Diophantine approximation related to Dirichlet's theorem. **90k:11085**

Kraaikamp, C. *see* **Jager, H., 90k:11084**

Lakhtakia, Akhlesh (*with* Messier, R.; Varadan, V. V.; Varadan, V. K.) Incommensurate numbers, continued fractions, and fractal immittances. **90a:11075**

Messier, R. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

van Ravenstein, Tony The three gap theorem (Steinhaus conjecture). **90a:11076**

— Optimal spacing of points on a circle. **90e:11100**

Shapiro, A. P. *see* **Dzenskevich, E. A., 90k:11083**

Tong, Jing Cheng A theorem on approximation of irrational numbers by simple continued fractions. **90e:11101**

— Symmetric and asymmetric Diophantine approximation of continued fractions. (French summary) **90k:11086**

Varadan, V. K. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

Varadan, V. V. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

Items with secondary classifications in 11J70

Achuthan, P. (*with* Sundar, S.) Ramanujan functions, continued fractions and rational approximants. **90j:11103**

Bedocchi, Edmondo A note on p-adic continued fractions. (Italian. English summary) **90d:11014**

Beukers, F. (*with* Top, Jaap) On oranges and integral points on certain plane cubic curves. **90h:11046**

Bosma, Wieb Approximation by mediants. **90m:11119**

Cusick, Thomas W. Products of simultaneous approximations of rational numbers. **90i:11071**

Golubeva, E. P. On the lengths of the periods of a continued fraction expansion of quadratic irrationalities and on the class numbers of real quadratic fields. II. (Russian) **90c:11085**

Hovstad, R. M. The classical irrationality problem for T-fractions. **90m:40001**

Knopfmacher, Arnold (*with* Knopfmacher, John) Infinite series representations for complex numbers. **90e:11018**

— (*with* Knopfmacher, John) The exact length of the Euclidean algorithm in $F_q[X]$. **90d:11136**

— (*with* Knopfmacher, John) Series expansions in p-adic and other non-Archimedean fields. **90i:11073**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90d:11136; 90e:11018** *and* **90i:11073**

Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. **90m:11120**

Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. **90j:11032**

Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] **90k:03056**

Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. **90f:11067**

Peretti, A. The irrationality of Euler's constant. II. **90d:11087**

Prasad, K. C. A note on asymmetric approximations. **90f:11052**

van Ravenstein, Tony *see* **Winley, Graham; et al., 90i:11068**

Schuppar, Berthold Gute rationale Näherungen für reelle Zahlen. [Good rational approximations for real numbers] **90m:11102**

Sundar, S. *see* **Achuthan, P., 90j:11103**

Tognetti, Keith *see* **Winley, Graham; et al., 90i:11068**

Top, Jaap *see* **Beukers, F., 90h:11046**

Winley, Graham (*with* Tognetti, Keith; van Ravenstein, Tony) Hurwitz's theorem and the continued fraction with constant terms. **90i:11068**

11J71 Distribution modulo one [see also 11K06]

Items with secondary classifications in 11J71

Berend, Daniel Irrational dilations of approximate multiplicative semigroups of integers. **90i:11079**

Blanksby, P. E. (*with* Lloyd-Smith, C. W.; McAuley, M. J.) On diameters of algebraic integers. **90j:11106**

Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. **90i:11091**

Hellekalek, P. (*with* Larcher, G.) On functions with bounded remainder. (French summary) **90i:28024**

Huxley, M. N. The fractional parts of a smooth sequence. **90b:11066**

Kano, Takeshi A fundamental problem in the theory of uniform distribution of sequences. **90m:11114**

Langevin, M. (*with* Reyssat, É.; Rhin, Georges) Diamètres transfinis et problème de Favard. (English summary) [Transfinite diameters and the Favard problem] **90b:11103**

— Solution des problèmes de Favard. (English summary) [Solution of Favard problems] **90b:11104**

Larcher, G. On the distribution of s-dimensional Kronecker-sequences. **90f:11065**

— *see also* **Hellekalek, P., 90i:28024**

Lloyd-Smith, C. W. *see* **Blanksby, P. E.; et al., 90j:11106**

McAuley, M. J. *see* **Blanksby, P. E.; et al., 90j:11106**

Reyssat, É. *see* **Langevin, M.; et al., 90b:11103**

Rhin, Georges *see* **Langevin, M.; et al., 90b:11103**

Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) **90m:12010**

Skriganov, M. M. Lattices in algebraic number fields and uniform distribution mod 1. (Russian) **90k:11155**

11J72 Irrationality; linear independence over a field

Bundschuh, Peter (*with* Waldschmidt, M.) Irrationality results for theta functions by Gel′fond-Schneider's method. **90m:11106**

Mendès France, Michel A Diophantine problem. **90j:11064**

Peretti, A. The irrationality of Euler's constant. II. **90d:11087**

Shan, Zun (*with* Wang, Edward T.) Generalization of a theorem of Mahler. **90f:11055**

Shirasaka, Shigeshi On a theorem of S. Chowla. **90d:11088**

Sorokin, V. N. Linear independence of logarithms of some rational numbers. **90m:11107**

Väänänen, K. (*with* Wallisser, R. V.) Zu einem Satz von Skolem über lineare Unabhängigkeit von Werten gewisser Thetareihen. (English summary) [On a theorem of Skolem on linear independence of values of certain theta series] **90j:11065**

Waldschmidt, M. *see* **Bundschuh, Peter, 90m:11106**

Wallisser, R. V. *see* **Väänänen, K., 90j:11065**

Wang, Edward T. *see* **Shan, Zun, 90f:11055**

Yu, Hong Bing A note on a theorem of Mahler. (Chinese) **90c:11044**

Items with secondary classifications in 11J72

Allouche, Jean-Paul (*with* Mendès France, Michel; van der Poorten, A. J.) Indépendance algébrique de certaines séries formelles. (English summary) [Algebraic independence of certain formal power series] **90h:11060**

André-Jeannin, Richard Irrationalité de la somme des inverses de certaines suites récurrentes. (English summary) [The irrationality of the sum of reciprocals in certain recurrent sequences] **90b:11012**

Drmota, M. Abschätzungen ganzzahliger Polynome auf dem Intervall [0, 1]. [Estimates of integral polynomials on the interval [0, 1]] **90h:26018**

Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. **90f:11084**

Hovstad, R. M. The classical irrationality problem for T-fractions. **90m:40001**

de Mathan, B. Exposants d'approximation. [Exponents of approximation] **90d:11083**

Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 90h:11060**

van der Poorten, A. J. *see* **Allouche, Jean-Paul; et al., 90h:11060**

11J81 Transcendence (general theory)

Bertrand, D. Galois representations and transcendental numbers. **90a:11077**

Beukers, F. Some new results on algebraic independence of E-functions. **90a:11078**

(Brownawell, W. Dale) *see* **Shidlovskiĭ, A. B., 90j:11066**

Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] **90i:11074**

Hirata-Kohno, Noriko Approximation de périodes de fonctions méromorphes. [Approximation of periods of meromorphic functions] **90m:11108**

(Koblitz, Neal) *see* **Shidlovskiĭ, A. B., 90j:11066**

Loxton, J. H. Automata and transcendence. **90b:11068**

Oryan, M. H. Über gewisse Potenzreihen, die für algebraische Argumente Werte aus der Mahlerschen Unterklassen U_m nehmen. (Turkish summary) [On certain power series which for algebraic arguments take values from the Mahler subclasses U_m] **90e:11102**

— Über die Unterklassen U_m der Mahlerschen Klasseneinteilung der transzendenten formalen Laurentreihen. (Turkish summary) [On the subclasses U_m of Mahler's classification of transcendental formal Laurent series] **90e:11103**

Sharif, Habib *see* **Woodcock, Christopher F., 90i:11075**

Shidlovskiĭ, A. B. ★ Transcendental numbers. **90j:11066**

Sieburg, Hans-Bernd Transcendence theory over nonlocal fields. **90h:11058**

Waldschmidt, M. On the transcendence methods of Gel′fond and Schneider in several variables. **90d:11089**

Wallisser, R. V. On entire functions assuming integer values in a geometric sequence. **90j:11067**

Woodcock, Christopher F. (*with* Sharif, Habib) On the transcendence of certain series. **90i:11075**

Wüstholz, G. Multiplicity estimates on group varieties. **90g:11100**

Zeren, Bedriye M. Über einige komplexe und p-adische Lückenreihen mit Werten aus den Mahlerschen Unterklassen U_m. (Turkish summary) [On some complex and p-adic gap series with values from Mahler's subclasses U_m] **90e:11104**

Items with secondary classifications in 11J81

Angell, David The limiting behaviour of certain sequences of continued fractions. **90a:11015**

Berenstein, Carlos A. (*with* Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] **90d:32007**

Brownawell, W. Dale Applications of Cayley-Chow forms. **90h:11061**

(Durand, Alain) *see* **Fifty years of polynomials, 90j:00018**

(Langevin, M.) *see* **Fifty years of polynomials, 90j:00018**

Langmann, Klaus Holomorphe Abbildungen zwischen quasiprojektiven Räumen. [Holomorphic mappings between quasiprojective spaces] **90d:32044**

Masser, D. W. (*with* Wüstholz, G.) Another note on Baker's theorem. **90k:11091**

Väänänen, K. Application of Hermite-Mahler polynomials to the approximation of the values of p-adic exponential function. **90m:11105**

Waldschmidt, M. Fonctions thêta et nombres transcendants. [Theta functions and transcendental numbers] **90a:11086**

— *see also* **Fifty years of polynomials, 90j:00018**

Wüstholz, G. *see* **Masser, D. W., 90k:11091**

Yger, Alain *see* **Berenstein, Carlos A., 90d:32007**

Yuan, Jin An approximation theorem for p-adic algebraic numbers. (Chinese. English summary) **90d:11086**

Zhu, Yao Chen Arithmetical properties of gap series with algebraic coefficients. **90a:11083**

Items listed otherwise than by author

Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Conference:

Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Fifty years of polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Paris ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

11J82 Measures of irrationality and of transcendence

André, Yves ★ G-functions and geometry. **90k:11087**

Derevyanko, N. I. Approximation of the values of some functions. (Russian) **90e:11105**

Galochkin, A. I. On effective bounds for certain linear forms. **90b:11069**

Kuukasjärvi, M. (*with* Matala-Aho, T.; Väänänen, K.) On irrationality measures of certain P-adic numbers. **90k:11088**

Matala-Aho, T. *see* **Kuukasjärvi, M.; et al., 90k:11088**

Nesterenko, Yu. V. Effective estimates of a measure of algebraic independence of values of E-functions. **90c:11045**

Ramachandra, K. An easy transcendence measure for e. **90f:11056**

Rhin, Georges Approximants de Padé et mesures effectives d'irrationalité. [Padé approximants and effective measures of irrationality] **90k:11089**

Väänänen, K. *see* **Kuukasjärvi, M.; et al., 90k:11088**

Zeren, Bedriye M. Über die Natur der Transzendenz der Werte einer Art verallgemeinerter Lückenreihen mit algebraischen Koeffizienten für algebraische Argumente. (English and Turkish summaries) [On the nature of transcendence of the values of a type of generalized lacunary series with algebraic coefficients for algebraic arguments] **90a:11079**

Zhu, Yao Chen Transcendence and algebraic independence of certain p-adic numbers. I. (Chinese) **90f:11058**

Items with secondary classifications in 11J82

Ably, Mohammed Mesure d'approximation simultanée. (English summary) [Simultaneous approximation measure] **90g:11090**

Amoroso, Francesco Some remarks about algebraic independence measures in high dimension. (French summary) **90i:11076**

Diaz, Guy Mesure d'indépendance algébrique de α^β, α^{β^2}. [Algebraic independence measures for α^β and α^{β^2}] **90g:11094**

Hirata-Kohno, Noriko Approximation de périodes de fonctions méromorphes. [Approximation of periods of meromorphic functions] **90m:11108**

Mignotte, Maurice (*with* Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. **90k:11092**

Philippon, P. (*with* Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendance. [Linear forms in elliptic logarithms and transcendence measures] **90m:11110**

Sorokin, V. N. Linear independence of logarithms of some rational numbers. **90m:11107**

Waldschmidt, M. *see* **Mignotte, Maurice, 90k:11092** *and* **Philippon, P., 90m:11110**

11J83 Metric theory

Bernik, V. I. (*with* Markovich, N. I.) Diophantine approximations with coefficients that depend on a parameter. (Russian. English summary) **90a:11080**

Dodson, M. M. (*with* Rynne, B. P.; Vickers, J. A. G.) Metric Diophantine approximation and Hausdorff dimension on manifolds. **90b:11070**

Dombrovskiĭ, I. R. Simultaneous approximations of real numbers by algebraic numbers of bounded degree. (Russian. English summary) **90h:11059**

Markovich, N. I. *see* **Bernik, V. I., 90a:11080**

Nguyễn Xuân Viên Diophantine approximations on manifolds that are defined by polynomials of several variables. (Russian. English summary) **90j:11068**

Rynne, B. P. *see* **Dodson, M. M.; et al., 90b:11070**

Vickers, J. A. G. *see* **Dodson, M. M.; et al., 90b:11070**

Items with secondary classifications in 11J83

Bernik, V. I. (*with* Mel′nichuk, Yu. V.) ★ Диофантовы приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] **90b:11077**

— Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. **90b:11078**

Mel′nichuk, Yu. V. *see* **Bernik, V. I., 90b:11077**

Strauch, Oto Some applications of Franel-Kluyver's integral. II. (Russian summary) **90j:11079**

Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J85 Algebraic independence; Gel′fond's method

Allouche, Jean-Paul (*with* Mendès France, Michel; van der Poorten, A. J.) Indépendance algébrique de certaines séries formelles. (English summary) [Algebraic independence of certain formal power series] **90h:11060**

Amoroso, Francesco Some remarks about algebraic independence measures in high dimension. (French summary) **90i:11076**

Becker-Landeck, Paul-George (*with* Nishioka, Kumiko) Measures for the algebraic independence of the values of Mahler type functions. **90a:11081**

Beukers, F. (*with* Brownawell, W. Dale; Heckman, Gert) Siegel normality. **90e:11106**

Bézivin, J.-P. (*with* Robba, P.) A new p-adic method for proving irrationality and transcendence results. **90e:11107**
Brownawell, W. Dale Applications of Cayley-Chow forms. **90h:11061**
— *see also* **Beukers, F.; et al., 90e:11106**
Bundschuh, Peter A criterion for algebraic independence with some applications. **90f:11057**
Diaz, Guy Mesure d'indépendance algébrique de α^{β}, α^{β^2}. [Algebraic independence measures for α^{β} and α^{β^2}] **90g:11094**
— Grands degrés de transcendance pour des familles d'exponentielles. (English summary) [Large transcendence degrees for families of exponentials] **90e:11108**
Fel′dman, N. I. A note on Gel′fond's method. **90c:11046**
Heckman, Gert *see* **Beukers, F.; et al., 90e:11106**
Just, Bettina Integer relations among algebraic numbers. **90m:11109**
Lossov, N. I. Algebraic independence of the values of some classes of hypergeometric E-functions. **90e:11109**
Loxton, J. H. (*with* van der Poorten, A. J.) Arithmetic properties of automata: regular sequences. **90a:11082**
Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 90h:11060**
Nishioka, Kumiko Evertse theorem in algebraic independence. **90h:11062**
— *see also* **Becker-Landeck, Paul-George, 90a:11081**
Philibert, Georges Une mesure d'indépendance algébrique. [A measure of algebraic independence] **90b:11071**
van der Poorten, A. J. *see* **Loxton, J. H., 90a:11082** *and* **Allouche, Jean-Paul; et al., 90h:11060**
Robba, P. *see* **Bézivin, J.-P., 90e:11107**
Salikhov, V. Kh. Formal solutions of linear differential equations and their application in the theory of transcendental numbers. (Russian) **90e:11110**
Shidlovskiĭ, A. B. On the problem of algebraic independence of values of E-functions at algebraic points. **90e:11111**
Tubbs, Robert The algebraic independence of three numbers: Schneider's method. **90j:11069**
— A note on some elementary measures of algebraic independence. **90i:11077**
Väänänen, K. (*with* Xu, Guang Shan) On the arithmetic properties of the values of G-functions. **90g:11095**
Xu, Guang Shan *see* **Väänänen, K., 90g:11095**
Zhu, Yao Chen Arithmetical properties of gap series with algebraic coefficients. **90a:11083**
— Transcendence and algebraic independence of certain p-adic numbers. II. (Chinese) **90f:11059**
— A note on certain fields of finite transcendence type. **90k:11090**
— A generalization in several variables of a transcendence criterion of Gel′fond. II. **90h:11063**
— Criteria of algebraic independence of complex numbers over a field of finite transcendence type. **90g:11096**
— On a criterion of algebraic independence of numbers. **90h:11064**

Items with secondary classifications in 11J85

Beukers, F. Some new results on algebraic independence of E-functions. **90a:11078**
Brindza, B. Some new applications of an inequality of Mason. **90a:11039**
Bundschuh, Peter (*with* Waldschmidt, M.) Irrationality results for theta functions by Gel′fond-Schneider's method. **90m:11106**
Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] **90i:11074**
Galochkin, A. I. On effective bounds for certain linear forms. **90b:11069**
Katsurada, Masanori Linear independence measures for values of Heine series. **90f:11053**
Nesterenko, Yu. V. Effective estimates of a measure of algebraic independence of values of E-functions. **90c:11045**
Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) **90m:12010**
— Irreducibility of a class of hypergeometric equations. (Russian) **90m:12011**
Waldschmidt, M. *see* **Bundschuh, Peter, 90m:11106**
Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J86 Linear forms in logarithms; Baker's method

Masser, D. W. (*with* Wüstholz, G.) Another note on Baker's theorem. **90k:11091**
Mignotte, Maurice (*with* Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. **90k:11092**
Philippon, P. (*with* Waldschmidt, M.) Lower bounds for linear forms in logarithms. **90b:11072**
Roy, Damien Sous-groupes minimaux de $\mathbf{R}^n$. (English summary) [Minimal subgroups of $\mathbf{R}^n$] **90a:11084**
Waldschmidt, M. Sur les méthodes de Schneider, Gel′fond et Baker. [On the methods of Schneider, Gel′fond and Baker] **90g:11097**
— *see also* **Philippon, P., 90b:11072** *and* **Mignotte, Maurice, 90k:11092**
Wüstholz, G. A new approach to Baker's theorem on linear forms in logarithms. III. **90a:11085**
— *see also* **Masser, D. W., 90k:11091**
Yu, Kun Rui Linear forms in logarithms in the p-adic case. **90g:11098**
— Linear forms in p-adic logarithms. **90k:11093**

Items with secondary classifications in 11J86

Balasubramanian, Ramachandran (*with* Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. **90i:11078**
Brindza, B. Some new applications of an inequality of Mason. **90a:11039**
Philippon, P. (*with* Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] **90e:11113**
— (*with* Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendance. [Linear forms in elliptic logarithms and transcendence measures] **90m:11110**
Shorey, T. N. *see* **Balasubramanian, Ramachandran; et al., 90i:11078**
Waldschmidt, M. *see* **Philippon, P., 90e:11113; Balasubramanian, Ramachandran; et al., 90i:11078** *and* **Philippon, P., 90m:11110**
Yu, Jing Transcendence and Drinfeld modules: several variables. **90j:11056**

11J87 Applications to Diophantine equations and other arithmetic problems

Balasubramanian, Ramachandran (*with* Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. **90i:11078**
Shorey, T. N. *see* **Balasubramanian, Ramachandran; et al., 90i:11078**
Waldschmidt, M. *see* **Balasubramanian, Ramachandran; et al., 90i:11078**
Zaĭdenberg, M. G. Transcendental solutions of Diophantine equations. **90e:11112**

Items with secondary classifications in 11J87

André, Yves ★ G-functions and geometry. **90k:11087**
Belotserkovskiĭ, Yu. F. Effective analysis of a new class of Diophantine equations. (Russian. English summary) **90d:11038**
Berenstein, Carlos A. (*with* Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] **90d:32007**
Bombieri, E. (*with* Vaaler, J. D.) Polynomials with low height and prescribed vanishing. **90k:11133**
Brindza, B. On the equation $f(x)=y^m$ over finitely generated domains. **90i:11031**
Emsalem, Michel Transcendance et $\mathbf{Z}_p$-extensions. [Transcendence and $\mathbf{Z}_p$-extensions] **90a:11125**
Gross, Fred (*with* Osgood, Charles F.) Diophantine approximation to the value distribution theory of meromorphic functions. **90m:30037**
Luckhardt, H. Herbrand-Analysen zweier Beweise des Satzes von Roth: Polynomiale Anzahlschranken. (English summary) [Herbrand analyses of two proofs of Roth's theorem: polynomial bounds on cardinality] **90k:03056**
Masser, D. W. (*with* Wüstholz, G.) Some effective estimates for elliptic curves. **90j:11046**
McCleary, John How not to prove Fermat's last theorem. **90h:11026**
Mignotte, Maurice Sur les entiers qui s'écrivent simplement en différentes bases. [The integers that can be written simply in different bases] **90g:11015**
— (*with* Waldschmidt, M.) Linear forms in two logarithms and Schneider's method. II. **90k:11092**
Osgood, Charles F. *see* **Gross, Fred, 90m:30037**
Vaaler, J. D. *see* **Bombieri, E., 90k:11133**
Vojta, Paul Dyson's lemma for products of two curves of arbitrary genus. **90k:11075**
— Mordell's conjecture over function fields. **90k:11076**
Waldschmidt, M. *see* **Mignotte, Maurice, 90k:11092**
Wang, Lian Xiang Four terms equations. **90m:11046**
Wüstholz, G. *see* **Masser, D. W., 90j:11046**
Yger, Alain *see* **Berenstein, Carlos A., 90d:32007**
Zhong, Chui Xiang Fermat's last theorem: a note about Abel's conjecture. **90c:11019**

11J89 Transcendence theory of elliptic and abelian functions and algebraic groups

Laurent, Michel Une nouvelle démonstration du théorème d'isogénie, d'après D. V. et G. V. Choodnovsky. [A new proof of the isogeny theorem, following D. V. and G. V. Chudnovsky] **90k:11094**
Philippon, P. (*with* Waldschmidt, M.) Formes linéaires de logarithmes simultanées sur les groupes algébriques commutatifs. [Simultaneous linear forms of logarithms on commutative algebraic groups] **90e:11113**
— (*with* Waldschmidt, M.) Formes linéaires de logarithmes elliptiques et mesures de transcendance. [Linear forms in elliptic logarithms and transcendence measures] **90m:11110**
Umemura, Hiroshi On classical numbers. (Japanese) **90g:11099**
Waldschmidt, M. *see* **Philippon, P., 90e:11113** *and* **90m:11110**
Wüstholz, G. Algebraische Punkte auf analytischen Untergruppen algebraischer Gruppen. [Algebraic points on analytic subgroups of algebraic groups] **90g:11101**

Items with secondary classifications in 11J89

Beukers, F. (*with* Brownawell, W. Dale; Heckman, Gert) Siegel normality. **90e:11106**
Brownawell, W. Dale *see* **Beukers, F.; et al., 90e:11106**
Heckman, Gert *see* **Beukers, F.; et al., 90e:11106**
Philibert, Georges Une mesure d'indépendance algébrique. [A measure of algebraic independence] **90b:11071**
Tubbs, Robert The algebraic independence of three numbers: Schneider's method. **90j:11069**
— A note on some elementary measures of algebraic independence. **90i:11077**
Waldschmidt, M. On the transcendence methods of Gel′fond and Schneider in several variables. **90d:11089**
Wüstholz, G. Multiplicity estimates on group varieties. **90g:11100**
Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

11J91 Transcendence theory of other special functions

Flach, Matthias Periods and special values of the hypergeometric series. **90h:11065**
Lin, Wei Qiang A discussion on the transcendence of periodic functions. (Chinese) **90m:11111**
Waldschmidt, M. Fonctions thêta et nombres transcendants. [Theta functions and transcendental numbers] **90a:11086**

Items with secondary classifications in 11J91

Beukers, F. Some new results on algebraic independence of E-functions. **90a:11078**

Diaz, Guy Généralisation d'un résultat de W. D. Brownawell-M. Waldschmidt. (English summary) [Generalization of a result of W. D. Brownawell and M. Waldschmidt] **90i:11074**

Shidlovskiĭ, A. B. On the problem of algebraic independence of values of E-functions at algebraic points. **90e:11111**

Väänänen, K. (*with* Xu, Guang Shan) On the arithmetic properties of the values of G-functions. **90g:11095**

Xu, Guang Shan Diophantine approximation and transcendental number theory. **90d:11082**

— *see also* **Väänänen, K., 90g:11095**

Zhu, Yao Chen Transcendence and algebraic independence of certain p-adic numbers. I. (Chinese) **90f:11058**

— Transcendence and algebraic independence of certain p-adic numbers. II. (Chinese) **90f:11059**

11J99 None of the above, but in this section

Ahmed, S. I. *see* **Al-Rashed, Abdallah M., 90m:11112**

Al-Rashed, Abdallah M. (*with* Ahmed, S. I.) A generalization of the number π. **90m:11112**

Rumely, Robert Notes on van der Poorten's proof of the Hadamard quotient theorem. I, II. **90d:11090**

Items with secondary classifications in 11J99

Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantic deviation from zero. **90b:41010**

Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] **90c:11015**

— Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] **90k:30002**

Coster, Matthijs Congruence properties of coefficients of certain algebraic power series. **90b:11016**

D'Souza, Harry Trapping a real number between adjacent rationals. **90i:11072**

Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. **90d:11073**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Delange, Hubert Probabilistic number theory. **90d:11091**

11K06 General theory of distribution modulo 1 [see also 11J71]

Berend, Daniel Irrational dilations of approximate multiplicative semigroups of integers. **90i:11079**

Blümlinger, M. (*with* Drmota, M.; Tichy, R. F.) Metrische Sätze der C-Gleichverteilung auf der Sphäre. (English summary) [Metric theorems on the C-uniform distribution on the sphere] **90k:11095**

Brown, Gavin (*with* Keane, Michael S.; Moran, William; Pearce, C. E. M.) An inequality, with applications to Cantor measures and normal numbers. **90b:11073**

Chardin, Marc Lien entre deux résultats sur la répartition modulo 1 de la suite des multiples d'un nombre réel. (English summary) [Link between two results about the distribution modulo 1 of the multiples of a real number] **90f:11060**

Drmota, M. Gleichmässig gleichverteilte und schwach gleichmassig gleichverteilte Funktionen modulo 1. (English summary) [Uniformly distributed and weakly uniformly distributed functions modulo 1] **90g:11102**

— Such- und Prüfprozesse mit praktischen Gitterpunkten. [Search and test processes with practical lattice points] **90m:11113**

— *see also* **Blümlinger, M.; et al., 90k:11095**

Flajolet, Philippe (*with* Kirschenhofer, P.; Tichy, R. F.) Deviations from uniformity in random strings. **90a:11087**

Goldstern, Martin Vollständige Gleichverteilung in diskreten Räumen. (English summary) [Complete uniform distribution in discrete spaces] **90k:11096**

Kano, Takeshi A fundamental problem in the theory of uniform distribution of sequences. **90m:11114**

Keane, Michael S. *see* **Brown, Gavin; et al., 90b:11073**

Kirschenhofer, P. *see* **Flajolet, Philippe; et al., 90a:11087**

Larcher, G. On the distribution of the multiples of an s-tuple of real numbers. **90h:11066**

Loxton, J. H. Spectral studies of automata. **90e:11114**

Moran, William *see* **Brown, Gavin; et al., 90b:11073**

Paštéka, M. On distribution functions of sequences. (Russian and Slovak summaries) **90e:11115**

— Solution of one problem from the theory of uniform distribution. **90c:11047**

Pearce, C. E. M. *see* **Brown, Gavin; et al., 90b:11073**

Peres, Yuval Application of Banach limits to the study of sets of integers. **90a:11088**

Proinov, Petko D. On the inequalities of Erdős-Turán and Berry-Esseen. I. **90a:11089**

— On the Erdős-Turán inequality on uniform distribution. I. **90c:11048a**

— On the Erdős-Turán inequality on uniform distribution. II. **90c:11048b**

— On the inequalities of Erdős-Turán and Berry-Esseen. II. **90g:11103**

Tichy, R. F. Statistische Resultate über computergerechte Darstellungen von Zahlen. [Statistical results on computer-adjusted representations of numbers] **90a:11090**

— A criterion for the uniform distribution of sequences in compact metric spaces. **90c:11049**

— (*with* Winkler, Reinhard) Gleichverteilung in hyperkomplexen Systemen. [Uniform distribution in hypercomplex systems] **90j:11070**

— *see also* **Flajolet, Philippe; et al., 90a:11087** *and* **Blümlinger, M.; et al., 90k:11095**

Turnwald, Gerhard Einige Bemerkungen zur diskreten Gleichverteilung. (English summary) [Some remarks on discrete uniform distribution] **90g:11104**

Winkler, Reinhard *see* **Tichy, R. F., 90j:11070**

Items with secondary classifications in 11K06

Coffey, John Uniformly distributed D-sequences. **90k:28031**

Drmota, M. (*with* Tichy, R. F.) A note on Riess means and well distribution. **90f:11063b**

Dufner, G. Eine Bemerkung zur Franelsumme von Folgen. [A comment on the Franel sum of sequences] **90m:11118**

Flajolet, Philippe (*with* Kirschenhofer, P.; Tichy, R. F.) Discrepancy of sequences in discrete spaces. **90g:11105**

Fleischer, Wilhelm Ein Diskrepanzbegriff für kompakte Räume. (English summary) [A concept of discrepancy for compact spaces] (*see* **90h:11003**)

Goldstern, Martin (*with* Tichy, R. F.; Turnwald, Gerhard) Distribution of the ratios of the terms of a linear recurrence. **90d:11025**

Hellekalek, P. (*with* Larcher, G.) On functions with bounded remainder. (French summary) **90i:28024**

Kirschenhofer, P. *see* **Flajolet, Philippe; et al., 90g:11105**

Larcher, G. *see* **Hellekalek, P., 90i:28024**

Lyons, Russell Mixing and asymptotic distribution modulo 1. **90d:28019**

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] **90b:11075**

Obata, Nobuaki Density of natural numbers and the Lévy group. **90e:11027**

Schatte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) **90g:60016**

— On well-distribution with respect to weighted means. **90c:11050**

— Note on the discrepancy of well-distributed sequences. **90f:11063a**

— Note on the concept of m-dependence. **90m:60036**

Tichy, R. F. *see* **Goldstern, Martin; et al., 90d:11025; Drmota, M., 90f:11063b** *and* **Flajolet, Philippe; et al., 90g:11105**

Turnwald, Gerhard Weak uniform distribution of second-order linear recurring sequences. **90k:11018**

— *see also* **Goldstern, Martin; et al., 90d:11025**

Wang, Yuan^1 Number theoretic method in numerical analysis. **90d:65044**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Allouche, Jean-Paul Somme des chiffres et fonction zéta de Hurwitz. [Sum of digits and the Hurwitz zeta function] (*see* **90a:11003**)

Bertrand-Mathis, Anne (*with* Volkmann, Bodo) On (ε, k)-normal words in connecting dynamical systems. **90m:11115**

Borel, J.-P. Suites de longueur minimale associées à un ensemble normal donné. (English summary) [Sequences of minimal length associated with a given normal set] **90b:11074**

— Parties d'ensembles B-normaux. (English summary) [Subsets of B-normal sets] **90a:11091**

— Ensembles normaux et suites bornées. [Normal sets and bounded sequences] **90f:11061**

Boyd, David W. Salem numbers of degree four have periodic expansions. **90j:11071**

Goh, William M. Y. Dynamical representation of real numbers and its universality. **90j:11072**

Knopfmacher, Arnold (*with* Knopfmacher, John) Representations for real numbers via kth powers of integers. **90m:11116**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90m:11116**

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] **90b:11075**

Pushkin, L. N. A metric variant of the Cassels-Schmidt theorem. **90h:11067**

Szüsz, Peter (*with* Volkmann, Bodo) On numbers with given digit distributions. **90h:11068**

— *see also* **Volkmann, Bodo,** (**90a:11003**)

Volkmann, Bodo (*with* Szüsz, Peter) Sur des nombres normaux définis par un polynôme. [Normal numbers defined by a polynomial] (*see* **90a:11003**)

— *see also* **Szüsz, Peter, 90h:11068** *and* **Bertrand-Mathis, Anne, 90m:11115**

Items with secondary classifications in 11K16

Borwein, P. B. (*with* Loring, Terry A.) Some questions of Erdős and Graham on numbers of the form $\sum g_n/2^{g_n}$. **90e:11020**

Brown, Gavin (*with* Keane, Michael S.; Moran, William; Pearce, C. E. M.) An inequality, with applications to Cantor measures and normal numbers. **90b:11073**

Keane, Michael S. *see* **Brown, Gavin; et al., 90b:11073**

Kirschenhofer, P. (*with* Prodinger, H.; Tichy, R. F.) Über die Ziffernsumme natürlicher Zahlen und verwandte Probleme. (English summary) [On the sum of digits of natural numbers and related problems] **90k:11010**

Loring, Terry A. *see* **Borwein, P. B., 90e:11020**

Loxton, J. H. (*with* van der Poorten, A. J.) Arithmetic properties of automata: regular sequences. **90a:11082**

McDaniel, Wayne L. Difference of the digital sums of an integer base b and its prime factors. **90e:11021**

Mendès France, Michel A Diophantine problem. **90j:11064**

Moran, William *see* **Brown, Gavin; et al., 90b:11073**

Pearce, C. E. M. *see* **Brown, Gavin; et al., 90b:11073**

van der Poorten, A. J. *see* **Loxton, J. H., 90a:11082**

Prodinger, H. *see* **Kirschenhofer, P.; et al., 90k:11010**

Shapiro, A. P. The distribution of the first digits of a geometric progression. (Russian) **90j:11073**

Tichy, R. F. *see* **Kirschenhofer, P.; et al., 90k:11010**

Yu, Hong Bing A note on a theorem of Mahler. (Chinese) **90c:11044**

11K26 PV-numbers

Items with secondary classifications in 11K26

Bertin, M.-J. (*with* Pathiaux-Delefosse, Martine) ★ Conjecture de Lehmer et petits nombres de Salem. (French) [Lehmer's conjecture and small Salem numbers] **90f:11090**

Boyd, David W. Salem numbers of degree four have periodic expansions. **90j:11071**

Mauduit, Christian Caractérisation des ensembles normaux substitutifs. [Characterization of normal sets associated with substitution] **90b:11075**

Pathiaux-Delefosse, Martine *see* **Bertin, M.-J., 90f:11090**

Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] **90g:11017**

11K31 Other special sequences

Nair, Radhakrishnan On LeVeque's theorem about the uniform distribution (mod 1) of $(a_j \cos a_j x)_{j=1}^{\infty}$. **90d:11092**

Wen, Zhi Xiong (*with* Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] **90d:11093**

Wen, Zhi Ying *see* **Wen, Zhi Xiong, 90d:11093**

Wierdl, Máté Pointwise ergodic theorem along the prime numbers. **90f:11062**

Items with secondary classifications in 11K31

Chaix, Henri (*with* Faure, Henri) Discrépance et diaphonie des suites de van der Corput généralisées. (English summary) [Discrepancy and diaphony of generalized van der Corput sequences] **90m:11117**

Cooper, Curtis N. *see* **Kennedy, Robert E., 90m:11024**

Daróczy, Zoltán (*with* Kátai, Imre; Szabó, Tamás Zoltán) On completely additive functions related to interval-filling sequences. **90k:11014**

Faure, Henri *see* **Chaix, Henri, 90m:11117**

Goldstein, Sheldon (*with* Kelly, K.; Lebowitz, J. L.; Szász, Domokos) Asymmetric random walk on a random Thue-Morse lattice. **90k:82058**

Golomb, S. W. Distributions of periods and frequencies of runs in random binary sequences. **90i:60008**

Jacobson, Eliot Almost uniform distribution of the Fibonacci sequence. **90h:11015**

Janžura, Martin Test for submodel in Gibbs-Markov binary random sequence. **90h:62194**

Kátai, Imre *see* **Daróczy, Zoltán; et al., 90k:11014**

Kelly, K. *see* **Goldstein, Sheldon; et al., 90k:82058**

Kennedy, Robert E. (*with* Cooper, Curtis N.) A generalization of a result of C. Ramus and its application to digital sums. **90m:11024**

Lebowitz, J. L. *see* **Goldstein, Sheldon; et al., 90k:82058**

de Luca, Aldo (*with* Varricchio, Stefano) Some combinatorial properties of the Thue-Morse sequence and a problem in semigroups. **90k:68090**

Restivo, Antonio Coding sequences with constraints. **90m:94031**

Schatte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) **90g:60016**

Stein, Alan H. Exponential sums of digit counting functions. **90m:11025**

Strauch, Oto Some applications of Franel's integral. I. (Russian and Slovak summaries) **90d:11028**

Szabó, Tamás Zoltán *see* **Daróczy, Zoltán; et al., 90k:11014**

Szász, Domokos *see* **Goldstein, Sheldon; et al., 90k:82058**

Varricchio, Stefano *see* **de Luca, Aldo, 90k:68090**

11K36 Well-distributed sequences and other variations

Drmota, M. (*with* Tichy, R. F.) A note on Riess means and well distribution. **90f:11063b**

Mendès France, Michel (*with* Shallit, Jeffrey) Wire bending. **90a:11092**

Schatte, Peter On well-distribution with respect to weighted means. **90c:11050**

— Note on the discrepancy of well-distributed sequences. **90f:11063a**

— On measures of uniformly distributed sequences and Benford's law. **90k:11097**

Shallit, Jeffrey *see* **Mendès France, Michel, 90a:11092**

Shapiro, A. P. The distribution of the first digits of a geometric progression. (Russian) **90j:11073**

Tichy, R. F. *see* **Drmota, M., 90f:11063b**

Items with secondary classifications in 11K36

Adolphson, Alan On the distribution of angles of Kloosterman sums. **90k:11109**

Blümlinger, M. (*with* Drmota, M.; Tichy, R. F.) Asymptotic distribution of functions on compact homogeneous spaces. **90b:43009**

Das, Gokulananda (*with* Patel, B. K.) Lacunary distribution of sequences. **90d:40009**

Drmota, M. (*with* Tichy, R. F.) Distribution properties of continuous curves. **90j:11081**

— *see also* **Blümlinger, M.; et al., 90b:43009**

Friedlander, John B. Fractional parts of sequences. **90m:11104**

Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. **90a:11104**

Patel, B. K. *see* **Das, Gokulananda, 90d:40009**

Pratsevityĭ, N. V. Singular distributions of Cantor and Salem types. (Russian) **90b:28010**

Siu, Man Keung From binary sequences to combinatorial designs. (Chinese summary) **90m:05025**

Tichy, R. F. *see* **Blümlinger, M.; et al., 90b:43009** *and* **Drmota, M., 90j:11081**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Atanassov, E. Y. Note on the discrepancy of the van der Corput generalized sequences. **90h:11069**

— *see also* **Proinov, Petko D., 90c:11052**

Beck, József (*with* Chen, W. W. L.) Irregularities of point distribution relative to convex polygons. **90e:11116**

— On a problem of W. M. Schmidt concerning one-sided irregularities of point distributions. **90h:11070**

Borel, J.-P. Suites et mesures auto-similaires. [Self-similar sequences and measures] **90j:11074**

— Self-similar measures and sequences. **90f:11064**

Chaix, Henri (*with* Faure, Henri) Discrépance et diaphonie des suites de van der Corput généralisées. (English summary) [Discrepancy and diaphony of generalized van der Corput sequences] **90m:11117**

Chen, W. W. L. *see* **Beck, József, 90e:11116**

Drmota, M. Untere Schranken für die C-Diskrepanz. [Lower bounds for the C-discrepancy] **90a:11093**

Dufner, G. Eine Bemerkung zur Franelsumme von Folgen. [A comment on the Franel sum of sequences] **90m:11118**

Faure, Henri Discrépance quadratique de suites infinies en dimension un. [Quadratic discrepancy of infinite sequences in dimension one] **90j:11075**

— *see also* **Chaix, Henri, 90m:11117**

Flajolet, Philippe (*with* Kirschenhofer, P.; Tichy, R. F.) Discrepancy of sequences in discrete spaces. **90g:11105**

Fleischer, Wilhelm Ein Diskrepanzbegriff für kompakte Räume. (English summary) [A concept of discrepancy for compact spaces] (*see* **90h:11003**)

Gilio, Angelo An application of the concept of pseudodensity to the first significant digit problem in statistical data. (Italian. English summary) **90k:11098**

Goldstern, Martin Eine Klasse vollständig gleichverteilter Folgen. (English summary) [A class of completely uniformly distributed sequences] **90e:11117**

Hodges, John H. An improved result on irregularities in distribution of sequences of integers. (Italian summary) **90e:11118**

Horbowicz, J. (*with* Niederreiter, H.) Weighted exponential sums and discrepancy. **90k:11099**

— *see also* **Niederreiter, H., 90c:11051**

Kirschenhofer, P. (*with* Tichy, R. F.) Gleichverteilung in diskreten Räumen. (English summary) [Uniform distribution in discrete spaces] **90j:11076**

— *see also* **Flajolet, Philippe; et al., 90g:11105**

Lapeyre, Bernard (*with* Pagès, Gilles) Familles de suites à discrépance faible obtenues par itération de transformations de [0, 1]. (English summary) [Families of sequences with low discrepancy obtained by iteration of transforms of [0, 1]] **90b:11076**

Larcher, G. On the distribution of s-dimensional Kronecker-sequences. **90f:11065**

— (*with* Tichy, R. F.) Some number-theoretical properties of generalized sum-of-digit functions. **90i:11080**

Losert, V. Gleichverteilte Folgen und Folgen, für die fast alle Teilfolgen gleichverteilt sind. (English summary) [Uniformly distributed sequences, and sequences almost all of whose subsequences are uniformly distributed] **90k:11100**

Lovász, László (*with* Vesztergombi, K.) Extremal problems for discrepancy. **90f:11066**

Mignotte, Maurice Sur un théorème de M. Langevin. [On a theorem of M. Langevin] **90j:11077**

Niederreiter, H. (*with* Horbowicz, J.) Optimal bounds for exponential sums in terms of discrepancy. **90c:11051**

— *see also* **Horbowicz, J., 90k:11099**

Pagès, Gilles *see* **Lapeyre, Bernard, 90b:11076**

Proĭnov, Petko D. (*with* Atanassov, E. Y.) On the distribution of the van der Corput generalized sequences. (French summary) **90c:11052**

Schoißengeier, J. Über die Diskrepanz der Folgen $(n\alpha)$. [On the discrepancy of the sequences $(n\alpha)$] **90j:11078**

Strauch, Oto Some applications of Franel-Kluyver's integral. II. (Russian summary) **90j:11079**

Tichy, R. F. *see* **Flajolet, Philippe; et al., 90g:11105; Larcher, G., 90i:11080** *and* **Kirschenhofer, P., 90j:11076**

Vesztergombi, K. *see* **Lovász, László, 90f:11066**

Wagner, Gerold Sala On the product of distances to a point set on a sphere. **90j:11080**

Winkler, Reinhard Two results in uniform distribution theory. (German summary) **90a:11094**

Items with secondary classifications in 11K38

Aubry, S. (*with* Godrèche, C.; Luck, J. M.) Scaling properties of a structure intermediate between quasiperiodic and random. **90a:58154**

Flajolet, Philippe (*with* Kirschenhofer, P.; Tichy, R. F.) Deviations from uniformity in random strings. **90a:11087**

Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. **90a:11104**

Godrèche, C. *see* **Aubry, S.; et al., 90a:58154**

Hellekalek, P. (*with* Larcher, G.) On Weyl sums and skew products over irrational rotations. **90m:28019**

Kirschenhofer, P. *see* **Flajolet, Philippe; et al., 90a:11087**

Kiss, P. (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. I. **90j:11060a**

— (*with* Tichy, R. F.) A discrepancy problem with applications to linear recurrences. II. **90j:11060b**

Larcher, G. *see* **Hellekalek, P., 90m:28019**

Lécot, C. A direct simulation Monte Carlo scheme and uniformly distributed sequences for solving the Boltzmann equation. (German summary) **90d:65018**

Linhart, Johann Approximation of a ball by zonotopes using uniform distribution on the sphere. **90m:52013**

Loxton, J. H. Spectral studies of automata. **90e:11114**

Luck, J. M. *see* **Aubry, S.; et al., 90a:58154**

Nair, Radhakrishnan On LeVeque's theorem about the uniform distribution (mod 1) of $(a_j \cos a_j x)_{j=1}^{\infty}$. **90d:11092**

Niederreiter, H. The serial test for digital k-step pseudorandom numbers. **90g:65011**

— (*with* Sloan, I. H.) Lattice rules for multiple integration and discrepancy. **90f:65036**

Sloan, I. H. *see* **Niederreiter, H., 90f:65036**

Tichy, R. F. (*with* Winkler, Reinhard) Gleichverteilung in hyperkomplexen Systemen. [Uniform distribution in hypercomplex systems] **90j:11070**

— *see also* **Flajolet, Philippe; et al., 90a:11087; Kiss, P., 90j:11060a** *and* **90j:11060b**

Wagner, Gerold Sala On an imbalance problem in the theory of point distribution. **90j:42034**

Wikramaratna, R. S. ACORN—a new method for generating sequences of uniformly distributed pseudo-random numbers. **90j:11082**

Winkler, Reinhard *see* **Tichy, R. F., 90j:11070**

11K41 Continuous, p-adic and abstract analogues

Drmota, M. (*with* Tichy, R. F.) Distribution properties of continuous curves. **90j:11081**

Tichy, R. F. *see* **Drmota, M., 90j:11081**

Items with secondary classifications in 11K41

Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] **90m:11023**

— (*with* Thomas, Alain) Systemes de numeration et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] **90m:11022**

Pratsevityĭ, N. V. Singular distributions of Cantor and Salem types. (Russian) **90b:28010**

Thomas, Alain *see* **Dumont, Jean-Marie, 90m:11022**

11K45 Pseudo-random numbers; Monte Carlo methods

Edwards, K. J. Perfect pseudorandom numbers. **90h:11071**

Niederreiter, H. Remarks on nonlinear congruential pseudorandom numbers. **90e:11119**

Wikramaratna, R. S. ACORN—a new method for generating sequences of uniformly distributed pseudo-random numbers. **90j:11082**

Items with secondary classifications in 11K45

Afflerbach, Lothar (*with* Weilbächer, Rainer) The exact determination of rectangle discrepancy for linear congruential pseudorandom numbers. **90h:65009**

Chassaing, Philippe An optimal random number generator on $\mathbf{Z}_p$. **90e:65007**

Demidenko, S. N. *see* **Yarmolik, V. N., 90h:65011**

Denzer, V. (*with* Ecker, A.) Optimal multipliers for linear congruential pseudo-random number generators with prime moduli. **90h:65010**

Ecker, A. *see* **Denzer, V., 90h:65010**

Eichenauer-Herrmann, Jürgen (*with* Niederreiter, H.) On Marsaglia's lattice test for pseudorandom numbers. **90c:65011**

— (*with* Grothe, Holger) A remark on long-range correlations in multiplicative congruential pseudo random number generators. **90m:65017**

Grothe, Holger *see* **Eichenauer-Herrmann, Jürgen, 90m:65017**

Niederreiter, H. The serial test for digital k-step pseudorandom numbers. **90g:65011**

— The serial test for congruential pseudorandom numbers generated by inversions. **90e:65008**

— *see also* **Eichenauer-Herrmann, Jürgen, 90c:65011**

Rotondi, Renata Programming and statistical control of p-adic pseudorandom sequences. (Italian) **90j:65011**

Schnorr, C.-P. On the construction of random number generators and random function generators. **90k:94024**

Temirgaliev, N. *see* **Voronin, S. M., 90k:65020**

Voronin, S. M. (*with* Temirgaliev, N.) Quadrature formulas that are connected with divisors of the field of Gaussian numbers. **90k:65020**

Wang, Zhi Tang Weyl sequences of pseudorandom numbers. (Chinese) **90m:04003**

Weilbächer, Rainer *see* **Afflerbach, Lothar, 90h:65009**

Yarmolik, V. N. (*with* Demidenko, S. N.) ★ Generation and application of pseudorandom sequences for random testing. **90h:65011**

Zhou, Zhi Cheng An experimental study of the pseudorandomness of m-sequences. (Chinese. English summary) **90f:65010**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Bosma, Wieb Approximation by mediants. **90m:11119**

Fluch, Wolfgang Ein verallgemeinerter Gauss-Kuzmin-Operator. [A generalized Gauss-Kuz′min operator] **90a:11095**

— Numerische Betrachtungen zum Gauss-Kuzmin-Operator. [Numerical considerations on the Gauss-Kuzmin operator] **90a:11096**

Ito, Shunji Algorithms with mediant convergents and their metrical theory. **90k:11101**

Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. **90m:11120**

Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. **90f:11067**

Items with secondary classifications in 11K50

Lakhtakia, Akhlesh (*with* Messier, R.; Varadan, V. V.; Varadan, V. K.) Incommensurate numbers, continued fractions, and fractal immittances. **90a:11075**

Messier, R. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

van Ravenstein, Tony The three gap theorem (Steinhaus conjecture). **90a:11076**

Varadan, V. K. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

Varadan, V. V. *see* **Lakhtakia, Akhlesh; et al., 90a:11075**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99]

Berend, Daniel Density mod 1 of multiplicative semigroups in topological fields. **90d:11094**

Drobot, Vladimir (*with* Turner, John Christopher) Hausdorff dimension and Perron-Frobenius theory. **90a:11097**

Prodinger, H. Über längste 1-Teilfolgen in 0-1-Folgen. [On longest 1-subsequences in 0-1-sequences] **90g:11106**

Turner, John Christopher *see* **Drobot, Vladimir, 90a:11097**

Items with secondary classifications in 11K55

Bernik, V. I. (*with* Mel′nichuk, Yu. V.) ★ Диофантовы приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] **90b:11077**

— Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. **90b:11078**

Bertoin, Jean Sur la mesure d'occupation d'une classe de fonctions self-affines. (English summary) [The occupation measure of a class of self-affine functions] **90c:26023**

Bertrand-Mathis, Anne (*with* Volkmann, Bodo) On (ε, k)-normal words in connecting dynamical systems. **90m:11115**

Blanchard, F. β-expansions and symbolic dynamics. **90j:54039**

Dani, S. G. On orbits of endomorphisms of tori and the Schmidt game. **90b:58145**

Dekking, F. M. Critical phenomena for random Cantor sets. **90i:60009**

Eigen, Stanley J. (*with* Hajian, Arshag) Sequences of integers and ergodic transformations. **90m:28016**

Hajian, Arshag *see* **Eigen, Stanley J., 90m:28016**

Harrison, Jenny C. Embedded continued fractals and their Hausdorff dimension. **90e:58083**

Kôno, N. On self-affine functions. II. **90c:26024**

Mel′nichuk, Yu. V. *see* **Bernik, V. I., 90b:11077**

Pereverzeva, N. A. A set-theoretic characteristic of sets in $\mathbf{R}^2$ that admit a given order of approximation by algebraic numbers. (Russian. English summary) **90k:11102**

Petuaud, Catherine Entropie topologique des systèmes spécifiés. (English summary) [Topological entropy of systems with the specification property] **90j:54040**

Volkmann, Bodo *see* **Bertrand-Mathis, Anne, 90m:11115**

Weakley, William D. On the number of C^∞-words of each length. **90g:05012**

Wen, Zhi Xiong (*with* Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] **90d:11093**

Wen, Zhi Ying *see* **Wen, Zhi Xiong, 90d:11093**

11K60 Diophantine approximation [see also 11Jxx]

Bernik, V. I. (*with* Mel′nichuk, Yu. V.) ★ Диофантовы приближения и размерность Хаусдорфа. (Russian) [Diophantine approximations and Hausdorff dimension] **90b:11077**

— Applications of measure theory and Hausdorff dimension to the theory of Diophantine approximation. **90b:11078**

Harman, Glyn Metrical theorems on fractional parts of real sequences. **90j:11083**

Mel′nichuk, Yu. V. *see* **Bernik, V. I., 90b:11077**

Pereverzeva, N. A. A set-theoretic characteristic of sets in $\mathbf{R}^2$ that admit a given order of approximation by algebraic numbers. (Russian. English summary) **90k:11102**

Items with secondary classifications in 11K60

Bernik, V. I. Diophantine approximations on differentiable manifolds. (Russian. English summary) **90k:11081**

Dani, S. G. (*with* Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) **90d:11080**

Dodson, M. M. (*with* Rynne, B. P.; Vickers, J. A. G.) Metric Diophantine approximation and Hausdorff dimension on manifolds. **90b:11070**

Iosifescu, Marius On the random Fermat's equation. (Not in MR)

Ito, Shunji Algorithms with mediant convergents and their metrical theory. **90k:11101**

Margulis, G. A. *see* **Dani, S. G., 90d:11080**

Mashanov, V. I. Metric properties of a class of polynomials in several variables. (Russian. English summary) **90k:11082**

Rynne, B. P. *see* **Dodson, M. M.; et al., 90b:11070**

Strauch, Oto Some applications of Franel's integral. I. (Russian and Slovak summaries) **90d:11028**

Vickers, J. A. G. *see* **Dodson, M. M.; et al., 90b:11070**

11K65 Arithmetic functions [see also 11Nxx]

Bareĭkis, G. Probabilities of moderate deviations for multiplicative functions. **90k:11103**

— Moderate deviations for arithmetic functions. The local case. (Russian. English and Lithuanian summaries) **90i:11081**

de la Cal, Jesús On the three series theorem in number theory. **90a:11098**

Čekanavičius, Vydas *see* **Šiaulys, Jonas V., 90c:11054** *and* **90m:11121**

Elliott, P. D. T. A. The distribution of additive functions defined on short intervals. **90g:11107**

— The value distribution of differences of additive arithmetic functions. **90g:11108**

Evlikov, V. V. An estimate for the deviation from stable limit laws for a class of additive functions. **90b:11079**

— An estimate for deviation from the normal distribution law for an additive function. **90d:11095**

Hildebrand, Adolf An Erdős-Wintner theorem for differences of additive functions. **90a:11099**

Indlekofer, Karl-Heinz Über Verallgemeinerungen der Turán-Kubilius Ungleichung. [On generalizations of the Turán-Kubilius inequality] **90h:11072**

Kryžius, Zigmantas A functional limit theorem for some arithmetic processes. (Russian. English and Lithuanian summaries) **90k:11104**

Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. **90c:11053**

Pálfy, P. P. (*with* Szalay, M.) Further probabilistic results on the symmetric p-groups. **90g:11109**

Rosochowicz, E. On weak uniform distribution of sequences of integers. **90k:11105**

Ruzsa, Imre Z. On sets of weak uniform distribution. **90k:11106**

Šiaulys, Jonas V. (*with* Čekanavičius, Vydas) Approximation of distributions of integer-valued additive functions by discrete charges. I. **90c:11054**

— (*with* Čekanavičius, Vydas) Approximation of distributions of integer-valued additive functions by discrete charges. II. (Russian. English and Lithuanian summaries) **90m:11121**

Stakėnas, V. Additive functions and rational approximations. **90a:11100**

— Additive functions and simultaneous rational approximations. (Russian. English and Lithuanian summaries) **90i:11082**

Szalay, M. *see* **Pálfy, P. P., 90g:11109**

Items with secondary classifications in 11K65

Alladi, K. Probabilistic number theory and Brun's sieve. **90e:11140**

— The distribution of additive functions in special sets of integers. **90i:11105**

Babu, Gutti Jogesh (*with* Erdős, Paul) A note on the distribution function of additive arithmetical functions in short intervals. **90i:11106**

Erdős, Paul *see* **Babu, Gutti Jogesh, 90i:11106**

Fredman, Michael L. (*with* Saffari, Bahman; Smith, Brent) Polynômes réciproques: conjecture d'Erdős en norme L^4, taille des autocorrélations et inexistence des codes de Barker. (English summary) [Self-inversive polynomials: L^4-norm Erdős conjecture, size of autocorrelations and nonexistence of Barker codes] **90c:42004**

Hildebrand, Adolf Additive and multiplicative functions on shifted primes. **90i:11107**

Indlekofer, Karl-Heinz (*with* Kátai, Imre) Generalized moments of additive functions. **90j:11097**

Kátai, Imre *see* **Indlekofer, Karl-Heinz, 90j:11097**

Kryžius, Zigmantas Letter to the editors: "The distribution of additive arithmetic functions with shifted arguments" [Litovsk. Mat. Sb. 17 (1977), no. 4, 127–138; MR 57 #16241]. **90a:11110**

Kunth, Peter Über eine arithmetische Charakterisierung der multiplikativen, fast-geraden Funktionen. (English summary) [On an arithmetic characterization of multiplicative, almost-even functions] **90i:11099**

Saffari, Bahman *see* **Fredman, Michael L.; et al., 90c:42004**

Smith, Brent *see* **Fredman, Michael L.; et al., 90c:42004**

Yakymiv, A. L. On the number of A-permutations. **90d:60017**

11K99 None of the above, but in this section

Items with secondary classifications in 11K99

Allouche, Jean-Paul (*with* Mendès France, Michel; Tenenbaum, Gérald) Entropy: an inequality. **90e:26033**

Bourgain, J. Pointwise ergodic theorems for arithmetic sets. **90k:28030**

Brlek, S. Enumeration of factors in the Thue-Morse word. **90i:20071**

Dumont, Jean-Marie Formules sommatoires et systèmes de numération liés aux substitutions. [Summation formulas and numbering systems associated with substitutions] **90m:11023**

— (*with* Thomas, Alain) Systemes de numeration et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] **90m:11022**

Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k = 3$. **90k:05003**

— *see also* **Bourgain, J., 90k:28030**

Katznelson, Yitzhak *see* **Furstenberg, Hillel, 90k:05003** *and* **Bourgain, J., 90k:28030**

Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. **90m:30033**

Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 90e:26033**

Mirmukhamedov, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) **90k:42049**

(Ornstein, Donald S.) *see* **Bourgain, J., 90k:28030**

Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] **90h:43001**

Steutel, F. W. (*with* Thiemann, J. G. F.) On the independence of integer and fractional parts. **90h:62041**

Takahashi, Shigeru An asymptotic behavior of $\{f(n_k t)\}$. **90m:26004**

Tenenbaum, Gérald *see* **Allouche, Jean-Paul; et al., 90e:26033**

Thiemann, J. G. F. *see* **Steutel, F. W., 90h:62041**

Thomas, Alain *see* **Dumont, Jean-Marie, 90m:11022**

Volodin, N. A. Distribution mod p^N of polynomial coefficients. (Russian) **90i:11022**

Wright, Edward Maitland Number theory and other reminiscences of Viscount Cherwell. **90b:01096**

Zinterhof, Peter Über die schnelle Lösung von hochdimensionalen Fredholm-Gleichungen vom Faltungstyp mit zahlentheoretischen Methoden. [On the fast solution of higher-dimensional Fredholm equations of convolution type by means of number-theoretic methods] **90c:65164**

11Lxx Exponential sums and character sums

Chen, Jing Run (*with* Pan, Cheng Biao) Analytic number theory in China. I. **90c:11060**

Korobov, N. M. ★ Тригонометрические суммы и их приложения. (Russian) [Trigonometric sums and their applications] **90f:11068**

Pan, Cheng Biao *see* **Chen, Jing Run, 90c:11060**

11L03 Trigonometric and exponential sums, general

Graham, S. W. (*with* Kolesnik, G.) One- and two-dimensional exponential sums. **90h:11073**

Hajela, D. Exponential sums and faster than Nyquist signaling. **90m:11122**

Kano, Takeshi On the size of $\sum_{n\le x} d(n)e(nx)$. **90k:11107**

Kolesnik, G. *see* **Graham, S. W., 90h:11073**

Merzlyakov, A. S. Formulas of Liouville type for the sum of squares in quadratic number fields. (Russian) (*see* **90h:11001**)

Saffari, Bahman (*with* Smith, Brent) Inexistence de polynômes ultra-plats de Kahane à coefficients ±1. Preuve de la conjecture d'Erdős. (English summary) [Nonexistence of ultra-flat Kahane polynomials with coefficients ±1. Proof of the Erdős conjecture] **90k:11108**

Smith, Brent *see* **Saffari, Bahman, 90k:11108**

Items with secondary classifications in 11L03

Bourgain, J. Pointwise ergodic theorems for arithmetic sets. **90k:28030**

(Furstenberg, Hillel) *see* **Bourgain, J., 90k:28030**

Hanumanthachari, J. *see* **Reddy, P. V., 90h:11007**

Henkel, Malte (*with* Lacki, Jan) Integrable chiral Z_n quantum chains and a new class of trigonometric sums. **90h:82078**

Horbowicz, J. (*with* Niederreiter, H.) Weighted exponential sums and discrepancy. **90k:11099**

— *see also* **Niederreiter, H., 90c:11051**

Jutila, M. On exponential sums involving the Ramanujan function. **90c:11057**

(Katznelson, Yitzhak) *see* **Bourgain, J., 90k:28030**

Knizhnerman, L. A. (*with* Sokolinskiĭ, V. Z.) Trigonometric sums and sums of Legendre symbols with large and small absolute values. (Russian) **90k:11110**

Lacki, Jan *see* **Henkel, Malte, 90h:82078**

Niederreiter, H. (*with* Horbowicz, J.) Optimal bounds for exponential sums in terms of discrepancy. **90c:11051**

— *see also* **Horbowicz, J., 90k:11099**

(Ornstein, Donald S.) *see* **Bourgain, J., 90k:28030**

Reddy, P. V. (*with* Hanumanthachari, J.) Structure of a class of integers and its applications to certain totients and allied Ramanujan sums. **90h:11007**

Sárközy, A. (*with* Stewart, C. L.) On exponential sums over prime numbers. **90d:11096**

Shirasaka, Shigeshi On a theorem of S. Chowla. **90d:11088**

Sokolinskiĭ, V. Z. *see* **Knizhnerman, L. A., 90k:11110**

Stewart, C. L. *see* **Sárközy, A., 90d:11096**

11L05 Gauss and Kloosterman sums; generalizations

Adolphson, Alan On the distribution of angles of Kloosterman sums. **90k:11109**

Burgess, D. A. Partial Gaussian sums. **90c:11055**

— Partial Gaussian sums. II. **90c:11056**

Cosgrove, C. *see* **Glasser, M. L., 90h:11074**

Evans, Ronald (*with* Root, William A.) Conjectures for Selberg character sums. **90e:11120**

Glasser, M. L. (*with* Cosgrove, C.) A Gaussian-geometric finite sum formula. **90h:11074**

Ito, Hiroshi On a product related to the cubic Gauss sum. **90b:11080**

Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] **90f:11069**

Root, William A. *see* **Evans, Ronald, 90e:11120**

Items with secondary classifications in 11L05

Adolphson, Alan (*with* Sperber, Steven) On the degree of the L-function associated with an exponential sum. **90b:11134**

Coleman, Robert F. Computing stable reductions. **90h:11050**

Friedberg, Solomon Poincaré series, Kloosterman sums, trace formulas, and automorphic forms for GL(n). **90h:11044**

Friedlander, John B. Fractional parts of sequences. **90m:11104**

Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Degree two monomial representations of local Weil groups. **90m:11192b**

— (*with* Li, Wen-Ch'ing Winnie) Identities on quadratic Gauss sums. **90m:11192a**

Hardy, Kenneth (*with* Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1,(\frac{n}{p})=1}^{\infty}(\frac{n}{p})_4 n^{-1}$. **90k:11114**

Kubota, Tomio On a functional equation involving Kloosterman sums. **90a:11060**

Kuznetsov, N. V. The sums of the Kloosterman sums. **90i:11048**

Lachaud, Gilles Distribution of the weights of the dual of the Melas code. **90m:94044**

Li, Wen-Ch'ing Winnie On quadratic Gauss sums over local fields. **90k:11157**

— *see also* **Gérardin, Paul, 90m:11192a** *and* **90m:11192b**

Oskolkov, K. I. I. M. Vinogradov series and integrals and their applications. (Russian) **90g:11112**

Sperber, Steven *see* **Adolphson, Alan, 90b:11134**

Williams, Kenneth S. *see* **Hardy, Kenneth, 90k:11114**

Wolfmann, J. The weights of the dual code of the MELAS code over GF(3). **90e:94036**

Ye, Yang Bo Kloosterman integrals and base change for GL(2). **90i:11134**

11L10 Jacobsthal and Brewer sums; other complete character sums

Items with secondary classifications in 11L10

Monzingo, M. G. On the sum $\sum_{a=1}^{p-1}(a/p)a$. **90m:11009**

Suwa, Noriyuki (*with* Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. **90h:11052**

Yui, Noriko *see* **Suwa, Noriyuki, 90h:11052**

11L15 Weyl sums

Katz, Nicholas M. An estimate for character sums. **90b:11081**

Watt, N. A problem on semicubical powers. **90i:11083**

11L26 Sums over arbitrary intervals

Items with secondary classifications in 11L26

Huxley, M. N. (*with* Watt, N.) Exponential sums with a parameter. **90h:11075**

Watt, N. *see* **Huxley, M. N., 90h:11075**

11L40 Estimates on exponential sums and character sums

Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^α. (English summary) [Some remarks on polynomial congruences modulo p^α] **90a:11101**

Graham, S. W. (*with* Kolesnik, G.) On the difference between consecutive squarefree integers. **90b:11082**

Harman, Glyn On averages of exponential sums over primes. **90i:11084**

Huxley, M. N. (*with* Watt, N.) Exponential sums and the Riemann zeta function. **90g:11110**

— (*with* Watt, N.) Exponential sums with a parameter. **90h:11075**
Jutila, M. On exponential sums involving the Ramanujan function. **90c:11057**
— Mean value estimates for exponential sums. **90g:11111**
Karatsuba, A. A. Approximation of exponential sums by shorter ones. **90c:11058**
Knizhnerman, L. A. (*with* Sokolinskiĭ, V. Z.) Trigonometric sums and sums of Legendre symbols with large and small absolute values. (Russian) **90k:11110**
Kolesnik, G. *see* **Graham, S. W., 90b:11082**
Negmatova, G. D. Distribution of values of nonprincipal characters in sparse sequences. (Russian) **90m:11123**
Oskolkov, K. I. I. M. Vinogradov series and integrals and their applications. (Russian) **90g:11112**
Peretti, A. A probabilistic model for evaluating trigonometric and exponential sums. **90e:11121**
Sárközy, A. (*with* Stewart, C. L.) On exponential sums over prime numbers. **90d:11096**
Sokolinskiĭ, V. Z. *see* **Knizhnerman, L. A., 90k:11110**
Stewart, C. L. *see* **Sárközy, A., 90d:11096**
Tietäväinen, Aimo A. Incomplete sums and two applications of Deligne's result. **90b:11083**
Watt, N. Exponential sums and the Riemann zeta-function. II. **90k:11111**
— *see also* **Huxley, M. N., 90g:11110** *and* **90h:11075**
Zhan, Tao On a theorem of Darvenport [Davenport]. (Chinese summary) **90f:11070**

Items with secondary classifications in 11L40

Balog, A. On a variant of the Pjateckiĭ-Šapiro prime number problem. **90c:11062**
Bourgain, J. An approach to pointwise ergodic theorems. **90b:28016**
Burgess, D. A. Partial Gaussian sums. **90c:11055**
— Partial Gaussian sums. II. **90c:11056**
Chalk, John H. H. Polynomial congruences over incomplete residue systems, modulo k. **90e:11050**
Friedlander, John B. Primes in arithmetic progressions and related topics. **90h:11086**
Fujii, Akio Zeta zeros and Dirichlet L-functions. **90f:11073**
— Zeta zeros and Dirichlet L-functions. II. **90f:11074**
Graham, S. W. (*with* Pintz, J.) The distribution of r-free numbers. **90f:11079**
Hajela, D. Some remarks on $B_h[g]$ sequences. **90d:11022**
Horn, Günter Abschätzungen zum maximalen k-ten Potenzteiler. I. [Estimates on the maximal kth power divisor. I] **90h:11094**
Indlekofer, Karl-Heinz (*with* Kátai, Imre) Exponential sums with multiplicative coefficients. **90j:11093**
Kátai, Imre *see* **Indlekofer, Karl-Heinz, 90j:11093**
Katz, Nicholas M. An estimate for character sums. **90b:11081**
Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] **90i:11100**
Larcher, G. (*with* Tichy, R. F.) Some number-theoretical properties of generalized sum-of-digit functions. **90i:11080**
Menzer, Hartmut *see* **Müller, Wolfgang^2; et al., 90b:11020**
Müller, Wolfgang^2 (*with* Nowak, Werner Georg; Menzer, Hartmut) On the number of primitive Pythagorean triangles. (French summary) **90b:11020**
Nowak, Werner Georg On sums of two coprime kth powers. **90k:11123**
— *see also* **Müller, Wolfgang^2; et al., 90b:11020**
Perel'muter, G. I. An estimate for a multidimensional sum with multiplicative character. (Russian) **90k:11163**
Pintz, J. *see* **Graham, S. W., 90f:11079**
Shparlinskiĭ, I. E. Distribution of values of recurrent sequences. **90k:11017**
Solinas, Jerome A. On the joint distribution of digital sums. **90m:11142**
Tichy, R. F. *see* **Larcher, G., 90i:11080**

11L99 None of the above, but in this section

Items with secondary classifications in 11L99

Bykovskiĭ, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. **90c:11077**
Klusch, Dieter On Mellin-Ramanujan expansions. **90k:11132**

11Mxx Zeta and L-functions: analytic theory

Items with secondary classifications in 11Mxx

Apostol, Tom M. ★ Modular functions and Dirichlet series in number theory. **90j:11001**
Pan, Cheng Biao *see* **Pan, Cheng Dong; et al., 90c:11061**
Pan, Cheng Dong (*with* Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. **90c:11061**
Xie, Sheng Gang *see* **Pan, Cheng Dong; et al., 90c:11061**

11M06 $\zeta(s)$ and $L(s,\chi)$

Balasubramanian, Ramachandran (*with* Ramachandra, K.) Some local convexity theorems for the zeta-function-like analytic functions. **90h:11076**
— (*with* Ramachandra, K.) A lemma in complex function theory. I, II. **90m:11124**
Bragg, L. R. Some series whose coefficients involve the values $\zeta(n)$ for n odd. **90g:11113**
Conrey, J. Brian (*with* Ghosh, Amit; Gonek, S. M.) Mean values of the Riemann zeta-function with application to the distribution of zeros. **90h:11077**
— (*with* Ghosh, Amit) On mean values of the zeta-function. II. **90m:11125**
Dzhabbarov, I. Sh. Mean values of Dirichlet L-functions on short intervals of the critical line and their applications. (Russian. English and Azerbaijani summaries) **90b:11084**
Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Functional equations and periodic sequences. **90j:11084**
Ghosh, Amit *see* **Conrey, J. Brian; et al., 90h:11077** *and* **90m:11125**
Gonek, S. M. On negative moments of the Riemann zeta-function. **90g:11114**
— *see also* **Conrey, J. Brian; et al., 90h:11077**
Hafner, James Lee (*with* Ivić, Aleksandar) On some mean value results for the Riemann zeta-function. **90k:11112**
— (*with* Ivić, Aleksandar) On the mean-square of the Riemann zeta-function on the critical line. **90d:11097**
Hejhal, Dennis A. On the distribution of $\log|\zeta'(\frac{1}{2}+it)|$. **90j:11085**
Ivić, Aleksandar Large values of some zeta-functions near the line $\sigma = 1$. **90h:11078**
— Some recent results on the Riemann zeta-function. **90j:11086**
— *see also* **Hafner, James Lee, 90d:11097** *and* **90k:11112**
Julia, B. On the "statistics" of primes. (French summary) **90g:11115**
Kiseleva, L. V. On the zeros of the function $\zeta(s)$ in a neighborhood of the critical line. (Russian) **90m:11126**
Laurinčikas, Antanas A limit theorem for the Riemann zeta function near the critical line. II. (Russian) **90i:11085**
Lavrik, A. A. Discrete means of derivatives of the Riemann zeta-function on the critical line. (Russian) **90d:11098**
— Uniform approximations and zeros in short intervals of the derivatives of the Hardy function. **90i:11086**
Leng, Jing *see* **Wang, Yi Qun, 90g:11119**
Li, Wen-Ch'ing Winnie *see* **Gérardin, Paul, 90j:11084**
Matiyasevich, Yu. V. Connections between some sums with respect to trivial and nontrivial zeros of the Riemann zeta function. **90d:11099**
Matsumoto, Kohji Discrepancy estimates for the value-distribution of the Riemann zeta-function. III. **90a:11102**
Matsuoka, Yasushi On the power series coefficients of the Riemann zeta function. **90g:11116**
Montgomery, Hugh L. Selberg's work on the zeta-function. **90d:11100**
Moser, Ján On the integral equilibrium of the function $Z(t)$ in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) **90c:11059**
— Cubic mean value theorems in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) **90d:11101**
— Measures of some sets on the critical line. (Russian. English and Slovak summaries) **90e:11122**
— Cubic correlation formulas in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) **90g:11117**
Motohashi, Yoichi A spectral decomposition of the product of four zeta-values. **90g:11118**
Ramachandra, K. A remark on $\zeta(1+it)$. **90d:11102**
— Titchmarsh series. **90i:11087**
— On the frequency of Titchmarsh's phenomenon for $\zeta(s)$. VII. **90k:11113**
— (*with* Volovich, I. V.) A generalization of the Riemann zeta-function. **90h:11079**
— *see also* **Balasubramanian, Ramachandran, 90h:11076** *and* **90m:11124**
Srivastava, Hari M. A unified presentation of certain classes of series of the Riemann zeta function. **90h:11080**
Stechkin, S. B. Rational inequalities and zeros of the Riemann zeta function. (Russian) **90f:11071**
Stoica, Gheorghe On Riemann's zeta function. **90a:11103**
Volovich, I. V. *see* **Ramachandra, K., 90h:11079**
Wang, Yi Qun (*with* Leng, Jing) Plana's summation formula and the numerical calculation of the Riemann zeta function $\zeta(2k+1)$. (Chinese. English summary) **90g:11119**
Zhang, Wen Peng On the divisor problem. **90b:11085**

Items with secondary classifications in 11M06

Balakrishnan, U. A series for $\zeta(s)$. **90g:11123**
Bao, Na Euler's constant and Euler's formula. (Chinese) **90h:11114**
Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**
Huxley, M. N. (*with* Watt, N.) Exponential sums and the Riemann zeta function. **90g:11110**
Kuznetsov, N. V. The sums of the Kloosterman sums. **90i:11048**
Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**
Moser, Ján The Riemann zeta-function and the Einstein-Friedmann equations. II. (Russian. English and Slovak summaries) **90c:83020**
— Distribution of roots of the equations $Z(t)=0$, $Z'(t)=0$ in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) **90e:11123**
Peretti, A. The irrationality of Euler's constant. II. **90d:11087**
— Some new formulae in the theory of the zeta function. III. **90f:11075**
Sándor, József Remarks on Bernoulli polynomials and numbers. **90h:11017**
Satō, Fumihiro The Hamburger theorem for the Epstein zeta functions. **90f:11025**
Tenenbaum, Gérald Sur la distribution conjointe des deux fonctions "nombre de facteurs premiers". [On the joint distribution of the two "number of prime factors" functions] **90a:11106**
Watt, N. Exponential sums and the Riemann zeta-function. II. **90k:11111**
— *see also* **Huxley, M. N., 90g:11110**
Weil, André Prehistory of the zeta-function. **90e:01029**
Yoshida, Hiroyuki On calculations of zeros of L-functions related with Ramanujan's discriminant function on the critical line. **90b:11044**
Zhang, Wen-Bin On a number theoretic series. **90b:11092**

11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

Hardy, Kenneth (*with* Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1,(\frac{n}{p})=1}^{\infty}(\frac{n}{p})_4 n^{-1}$. **90k:11114**
Kanemitsu, S. On evaluation of certain limits in closed form. **90m:11127**
Williams, Kenneth S. *see* **Hardy, Kenneth, 90k:11114**
Zhang, Wen Peng A formula for quartic mean values of the L-function. (Chinese) **90j:11087**

Items with secondary classifications in 11M20

Fujii, Akio Zeta zeros, Hurwitz zeta functions and $L(1,\chi)$. **90i:11088**
Gross, Benedict H. (*with* Rosen, Michael I.) Fourier series and the special values of L-functions. **90k:11150**

Rosen, Michael I. *see* **Gross, Benedict H., 90k:11150**
Vignéras, Marie-France Moyennes galoisiennes des valeurs de fonctions L. [Galois means of values of L-functions] **90i:11057**

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Conrey, J. Brian More than two fifths of the zeros of the Riemann zeta function are on the critical line. **90g:11120**
Fujii, Akio Gram's law for the zeta zeros and the eigenvalues of Gaussian unitary ensembles. **90a:11104**
— Uniform distribution of the zeros of the Riemann zeta function and the mean value theorems of Dirichlet L-functions. **90f:11072**
— Zeta zeros and Dirichlet L-functions. **90f:11073**
— Zeta zeros and Dirichlet L-functions. II. **90f:11074**
— Some generalizations of Chebyshev's conjecture. **90h:11081**
— On a theorem of Landau. **90h:11082**
Gallagher, P. X. Applications of Guinand's formula. **90m:11128**
— A double sum over primes and zeros of the zeta-function. **90g:11121**
Gavrilov, N. I. On the problem of the distribution of roots of the zeta function. **90k:11115**
Moser, Ján Distribution of roots of the equations $Z(t)=0,\ Z'(t)=0$ in the theory of the Riemann zeta-function. (Russian. English and Slovak summaries) **90e:11123**
— Remarks on A. Selberg's theorems on the zeros of the function $\zeta(\frac{1}{2}+it)$. (Russian. English and Slovak summaries) **90g:11122**
Peretti, A. Some new formulae in the theory of the zeta function. III. **90f:11075**
Vinogradov, A. I. SL_n techniques and the density conjecture. (Russian) **90e:11124**

Items with secondary classifications in 11M26

Berry, Michael Victor Semiclassical formula for the number variance of the Riemann zeros. **90e:81037**
Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. **90i:11091**
Goldfeld, Dorian Explicit formulae as trace formulae. **90h:11045**
Hejhal, Dennis A. On the distribution of $\log|\zeta'(\frac{1}{2}+it)|$. **90j:11085**
Ivić, Aleksandar Some recent results on the Riemann zeta-function. **90j:11086**
Lavrik, A. A. Uniform approximations and zeros in short intervals of the derivatives of the Hardy function. **90i:11086**
Wolke, Dieter Über das Primzahl-Zwillingsproblem. [On the prime twin problem] **90k:11117**

11M35 Hurwitz and Lerch zeta functions

Balakrishnan, U. A series for $\zeta(s)$. **90g:11123**
Fujii, Akio Zeta zeros, Hurwitz zeta functions and $L(1,\chi)$. **90i:11088**
Ramachandra, K. (*with* Sankaranarayanan, Ayyadurai) Omega-theorems for the Hurwitz zeta-function. **90i:11089**
Sankaranarayanan, Ayyadurai *see* **Ramachandra, K., 90i:11089**

Items with secondary classifications in 11M35

Actor, Alfred Zeta functions on the nonpositive real axis. **90d:81096**
Bragg, L. R. Some series whose coefficients involve the values $\zeta(n)$ for n odd. **90g:11113**
Elizalde, E. Multiple zeta functions with arbitrary exponents. **90m:11130**
Srivastava, Hari M. A unified presentation of certain classes of series of the Riemann zeta function. **90h:11080**

11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F70, 11F72.}

Abou-Tair, Ibrahim A. On a certain class of Dirichlet series. **90m:11129**
(Bohr, Harald) *see* **Kahane, Jean-Pierre, 90k:11116**
Calderón, Catalina (*with* Zárate Azcuna, María José) Inversion formulas for Dirichlet series. **90i:11090**
Elizalde, E. Multiple zeta functions with arbitrary exponents. **90m:11130**
Everest, G. R. A "Hardy-Littlewood" approach to the S-unit equation. **90g:11124**
Fujii, Akio Diophantine approximation, Kronecker's limit formula and the Riemann hypothesis. **90i:11091**
Funakura, Takeo On coefficients of Artin L functions as Dirichlet series. **90m:11131**
Kahane, Jean-Pierre Around Bohr's thesis. **90k:11116**
Kurokawa, Nobushige Special values of Selberg zeta functions. **90b:11086**
Lavrik, A. F. Closed triplicity of functional equations of zeta functions. **90m:11132**
Lichtin, B. Poles of Dirichlet series and D-modules. **90m:11133**
Müller, Helmut On generalized zeta-functions. **90m:11134**
Sarnak, P. Special values of Selberg's zeta-function. **90g:11125**
Wakayama, Masato A formula for the logarithmic derivative of Selberg's zeta function. **90g:11126**
Zárate Azcuna, María José *see* **Calderón, Catalina, 90i:11090**

Items with secondary classifications in 11M41

Actor, Alfred Zeta functions on the nonpositive real axis. **90d:81096**
Adolphson, Alan (*with* Sperber, Steven) On the degree of the L-function associated with an exponential sum. **90b:11134**
Akiyama, Shigeki Selberg trace formula for odd weight. II. **90b:11055**
— Selberg trace formula for odd weight. I. **90c:11039**
Allouche, Jean-Paul Somme des chiffres et fonction zéta de Hurwitz. [Sum of digits and the Hurwitz zeta function] (*see* **90a:11003**)
Berenstein, Carlos A. (*with* Struppa, Daniele C.) Dirichlet series and convolution equations. **90d:30008**
Bilhan, Mehpare Tchebotarev's density theorem in global fields. (Turkish summary) **90j:11126**
Christian, Ulrich Untersuchung Selbergscher Zetafunktionen. [Investigation of Selberg zeta functions] **90g:11065**
Cohen, Stephen D. The function field abstract prime number theorem. **90j:11098**
Conrey, J. Brian (*with* Ghosh, Amit; Gonek, S. M.) Simple zeros of the zeta-function of a quadratic number field. II. **90i:11135**
Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. **90f:11084**
Gallagher, P. X. Applications of Guinand's formula. **90m:11128**
Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (*see* **90m:11193**)
— (*with* Li, Wen-Ch'ing Winnie) Twisted Dirichlet series and distributions. **90m:11178**
Ghosh, Amit *see* **Conrey, J. Brian; et al., 90i:11135**
Gonek, S. M. *see* **Conrey, J. Brian; et al., 90i:11135**
Hafner, James Lee (*with* Ivić, Aleksandar) On sums of Fourier coefficients of cusp forms. **90k:11055**
Haukkanen, Pentti On the Dirichlet series of rational arithmetical functions. **90j:11009**
Igusa, Jun-ichi b-functions and p-adic integrals. **90i:11140**
Ivić, Aleksandar *see* **Hafner, James Lee, 90k:11055**
Li, Wen-Ch'ing Winnie *see* **Gérardin, Paul, 90m:11178** *and* **(90m:11193)**
Lichtin, B. Erratum: "Generalized Dirichlet series and b-functions" [Compositio Math. **65** (1988), no. 1, 81–120; MR 89d:32030]. **90k:32050**
Mercier, Armel Une représentation pour la série de Dirichlet engendrée par $f(n^rM)$, où f est multiplicative. [A representation for the Dirichlet series generated by $f(n^rM)$, where f is multiplicative] **90i:11006**
Müller, Wolfgang^2 The mean square of the Dedekind zeta function in quadratic number fields. **90i:11137**
Nohmi, Masaya On a convolution on the space of p-adic functions. **90k:11159**
Ramachandra, K. (*with* Volovich, I. V.) A generalization of the Riemann zeta-function. **90h:11079**
Satō, Fumihiro The Hamburger theorem for the Epstein zeta functions. **90f:11025**
Sperber, Steven *see* **Adolphson, Alan, 90b:11134**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 90d:30008**
Vignéras, Marie-France Moyennes galoisiennes des valeurs de fonctions L. [Galois means of values of L-functions] **90i:11057**
Volovich, I. V. *see* **Ramachandra, K., 90h:11079**
Werbiński, Tadeusz An effective version of a theorem of T. Mitsui. **90m:11180**
Yoshida, Hiroyuki On a certain distribution on GL(n) and explicit formulas. **90c:11088**

11M45 Tauberian theorems

Items with secondary classifications in 11M45

Borwein, David A Tauberian theorem concerning Dirichlet series. **90d:40005**
Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] **90e:40007**
Zhan, Tao Distribution of k-full integers. **90j:11089**

11M51 Turán theory [See mainly 11N30]

Items with secondary classifications in 11M51

Balasubramanian, Ramachandran (*with* Ramachandra, K.) Some local convexity theorems for the zeta-function-like analytic functions. **90h:11076**
Ramachandra, K. *see* **Balasubramanian, Ramachandran, 90h:11076**

11M56 Sieves [See mainly 11N35]

Items with secondary classifications in 11M56

Rohrlich, David E. Nonvanishing of L-functions for GL(2). **90g:11062**

11M99 None of the above, but in this section

Items with secondary classifications in 11M99

Borwein, David (*with* Borwein, J. M.; Shail, R.) Analysis of certain lattice sums. **90j:82038**
Borwein, J. M. *see* **Borwein, David; et al., 90j:82038**
He, Ji Yu *see* **Yao, Qi, 90i:11095**
Shail, R. *see* **Borwein, David; et al., 90j:82038**
Yao, Qi (*with* He, Ji Yu) Applications of a new mean value theorem for the Riemann ζ function. (Chinese. English summary) **90i:11095**

11Nxx Multiplicative number theory

Pan, Cheng Biao *see* **Pan, Cheng Dong; et al., 90c:11061**
Pan, Cheng Dong (*with* Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. **90c:11061**
Xie, Sheng Gang *see* **Pan, Cheng Dong; et al., 90c:11061**

11N05 Distribution of primes

Balog, A. On a variant of the Pjateckij-Šapiro prime number problem. **90c:11062**
Čížek, Jiří Fourier transforms and the P.N.T. error term (abstract). (Russian and Slovak summaries) **90b:11087**
Friedlander, John B. (*with* Granville, Andrew) Limitations to the equi-distribution of primes. I. **90e:11125**
Giordano, George Further results on primes in small intervals. **90h:11083**
Goldston, D. A. (*with* Montgomery, Hugh L.) Pair correlation of zeros and primes in short intervals. **90h:11084**

— (*with* Gonek, S. M.) A note on the number of primes in short intervals. **90f:11076**

Gonek, S. M. *see* **Goldston, D. A., 90f:11076**

Granville, Andrew *see* **Friedlander, John B., 90e:11125**

He, Ji Yu *see* **Yao, Qi, 90i:11095**

Hildebrand, Adolf (*with* Maier, Helmut) Irregularities in the distribution of primes in short intervals. **90f:11077**

Jia, Chao Hua The greatest prime factor of integers in short intervals. II. (Chinese) **90m:11135**

Luo, Wen Zhi Bilinear forms of remainder terms in short intervals. (Chinese) **90i:11092**

Maier, Helmut Small differences between prime numbers. **90e:11126**

— *see also* **Hildebrand, Adolf, 90f:11077**

Montgomery, Hugh L. *see* **Goldston, D. A., 90h:11084**

Perelli, A. Local problems with primes. I. **90i:11093**

Peretti, A. The quantity of Sophie Germain primes less than x. **90e:11127**

Ribenboim, P. ★ The book of prime number records. **90g:11127**

Sampath, A. *see* **Srinivasan, B. R., 90i:11094**

Srinivasan, B. R. (*with* Sampath, A.) An elementary proof of the prime number theorem with a remainder term. **90i:11094**

Szydło, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. I, II. [On sign changes of some arithmetic functions. I, II] **90a:11105**

Tenenbaum, Gérald La méthode du col en théorie analytique des nombres. [The method of steepest descent in analytic number theory] **90f:11078**

— Sur la distribution conjointe des deux fonctions "nombre de facteurs premiers". [On the joint distribution of the two "number of prime factors" functions] **90a:11106**

Wolke, Dieter A property of the sequences of primes. **90b:11088**

— Über das Primzahl-Zwillingsproblem. [On the prime twin problem] **90k:11117**

Yao, Qi (*with* He, Ji Yu) Applications of a new mean value theorem for the Riemann ζ function. (Chinese. English summary) **90i:11095**

Items with secondary classifications in 11N05

Babanazarov, B. *see* **Tulyaganova, M. I., 90d:11113**

Cobeli, Cristian (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. **90c:11064**

Daboussi, H. On the prime number theorem for arithmetic progressions. **90h:11085**

Gallagher, P. X. Applications of Guinand's formula. **90m:11128**

Halberstam, H. (*with* Lou, Shi Tuo; Yao, Qi) A new upper bound in the linear sieve. **90e:11134**

Kaczorowski, Jerzy (*with* Staś, Włodzimierz) On the number of sign changes in the remainder-term of the prime-ideal theorem. **90b:11123**

Lou, Shi Tuo *see* **Halberstam, H.; et al., 90e:11134**

Révész, Sz. Effective oscillation theorems for a general class of real-valued remainder terms. **90e:11131**

Staś, Włodzimierz *see* **Kaczorowski, Jerzy, 90b:11123**

Szydło, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] **90m:11181**

Tulyaganova, M. I. (*with* Babanazarov, B.) Distribution of prime vectors of the integer lattice in small multidimensional cubes. (Russian) **90d:11113**

Vâjâitu, Marian *see* **Cobeli, Cristian; et al., 90c:11064**

Yao, Qi *see* **Halberstam, H.; et al., 90e:11134**

Zaharescu, Alexandru *see* **Cobeli, Cristian; et al., 90c:11064**

11N13 Primes in progressions [see also 11B25]

Coleman, M. D. On the equation $b_1p - b_2P_2 = b_3$. **90j:11088**

Daboussi, H. On the prime number theorem for arithmetic progressions. **90h:11085**

Friedlander, John B. Primes in arithmetic progressions and related topics. **90h:11086**

— On the Brun-Titchmarsh theorem. **90e:11128**

Grosswald, Emil Some number theoretical products. **90e:11129**

Mikawa, Hiroshi Almost-primes in arithmetic progressions and short intervals. **90m:11136**

Zhan, Tao Bombieri's thoerem in short intervals. **90g:11128**

Items with secondary classifications in 11N13

Balog, A. On additive representation of integers. **90m:11146**

Hardy, Kenneth (*with* Williams, Kenneth S.) Evaluation of the infinite series $\sum_{n=1,(\frac{n}{p})=1}^{\infty}(\frac{n}{p})_4n^{-1}$. **90k:11114**

Williams, Kenneth S. *see* **Hardy, Kenneth, 90k:11114**

11N25 Distribution of integers with specified multiplicative constraints

Balazard, Michel Sur la moyenne des exposants dans la décomposition en facteurs premiers. [On the average of the exponents in prime factorization] **90i:11096**

Chidambaraswamy, J. (*with* Krishnaiah, P. V.) On integers n with $J_t(n) < J_t(m)$ for $m > n$. **90d:11103**

Erdős, Paul (*with* Tenenbaum, Gérald) Sur les densités de certaines suites d'entiers. [On the densities of certain sequences of integers] **90h:11087**

Graham, S. W. (*with* Pintz, J.) The distribution of r-free numbers. **90f:11079**

Krätzel, Ekkehard The distribution of powerful integers of type 4. **90g:11129**

Krishnaiah, P. V. *see* **Chidambaraswamy, J., 90d:11103**

Li, Hong Ze The distribution of kth-power-free numbers. (Chinese. English summary) **90h:11088**

Menzer, Hartmut The distribution of powerful integers of type 4. **90e:11130**

Pintz, J. *see* **Graham, S. W., 90f:11079**

Rakhmonov, Z. Kh. The distribution of Hardy-Littlewood numbers in arithmetic progressions. **90g:11130**

Recknagel, Winfried Über k-freie Zahlen als Summe von zwei Quadraten. [On k-free numbers as sum of two squares] **90d:11104**

Saias, Eric Sur le nombre des entiers sans grand facteur premier. [On the number of integers without large prime factors] **90f:11080**

Sárközy, A. Hybrid problems in number theory. **90m:11137**

Tenenbaum, Gérald *see* **Erdős, Paul, 90h:11087**

Trifonov, O. On the squarefree problem. **90b:11089**

Zhan, Tao On the error function of the square-full integers. **90i:11097**

— Distribution of k-full integers. **90j:11089**

Items with secondary classifications in 11N25

Balasubramanian, Ramachandran (*with* Shorey, T. N.; Waldschmidt, M.) On the maximal length of two sequences of consecutive integers with the same prime divisors. **90i:11078**

Cohen, G. L. (*with* Segal, S. L.) A note concerning those n for which $\varphi(n) + 1$ divides n. **90g:11008**

De Koninck, Jean-Marie (*with* Kátai, Imre; Mercier, Armel) Additive functions and the largest prime factor of integers. **90j:11092**

Erdős, Paul (*with* Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] **90i:11098**

Hall, R. R. (*with* Tenenbaum, Gérald) ★ Divisors. **90a:11107**

Hausman, Miriam (*with* Shapiro, Harold N.) On Ramanujan's right triangle conjecture. **90e:11049**

Heath-Brown, D. R. Consecutive almost-primes. **90h:11093**

Kátai, Imre *see* **De Koninck, Jean-Marie; et al., 90j:11092**

Mercier, Armel *see* **De Koninck, Jean-Marie; et al., 90j:11092**

Nicolas, Jean-Louis *see* **Erdős, Paul, 90i:11098**

Plaksin, V. A. The distribution of numbers represented by the sum of two squares. **90a:11113**

Segal, S. L. *see* **Cohen, G. L., 90g:11008**

Shapiro, Harold N. *see* **Hausman, Miriam, 90e:11049**

Shorey, T. N. *see* **Balasubramanian, Ramachandran; et al., 90i:11078**

Tenenbaum, Gérald *see* **Hall, R. R., 90a:11107**

Turganaliev, R. T. On the Dirichlet divisor problem in quasiprogressions. (Russian. Kazakh summary) **90d:11108**

Waldschmidt, M. *see* **Balasubramanian, Ramachandran; et al., 90i:11078**

Wheeler, Ferrell S. Two differential-difference equations arising in number theory. **90g:11134**

Xuan, Ti Zuo On a problem of Erdős and Ivić. **90f:11085**

11N30 Turán theory

Kaczorowski, Jerzy (*with* Staś, Włodzimierz) On the number of sign-changes in the remainder-term of the prime-ideal theorem. **90m:11138**

Lorch, Lee (*with* Russell, Dennis) On some contributions of Halász to the Turán power-sum theory. **90f:11081**

Révész, Sz. Effective oscillation theorems for a general class of real-valued remainder terms. **90e:11131**

Russell, Dennis *see* **Lorch, Lee, 90f:11081**

Staś, Włodzimierz *see* **Kaczorowski, Jerzy, 90m:11138**

Items with secondary classifications in 11N30

Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] **90i:30005**

Reddy, A. R. Note on a result of Erdős. **90m:26023**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

Fung, Gilbert W. (*with* Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. **90j:11090**

Grosswald, Emil On prime representing polynomials. **90b:11090**

Hinz, Jürgen G. Square-free values of cubic polynomials in algebraic number fields. **90g:11131**

Williams, Hugh Cowie *see* **Fung, Gilbert W., 90j:11090**

Items with secondary classifications in 11N32

Babaev, G. (*with* Gafurov, N.) Improvement of a result on the sum of powers of divisors of polynomials. (Russian. Tajiki summary) **90e:11137**

Gafurov, N. *see* **Babaev, G., 90e:11137**

Klusch, Dieter On Mellin-Ramanujan expansions. **90k:11132**

11N35 Sieves

Bauer, J.-P. Sur la persistance de certaines séquences dans les suites du crible d'Eratosthène. [On the persistence of certain sequences in the sequences of the sieve of Eratosthenes] **90e:11132**

Bombieri, E. Selberg's sieve and its applications. **90g:11132**

Cheer, A. Y. (*with* Goldston, D. A.) A differential delay equation arising from the sieve of Eratosthenes. **90j:11091**

Diamond, Harold G. (*with* Halberstam, H.; Richert, H.-E.) Differential difference equations associated with sieves. **90k:11118**

Goldston, D. A. *see* **Cheer, A. Y., 90j:11091**

Greaves, George Some remarks on the sieve method. **90d:11105**

Grupp, Frieder On zeros of functions satisfying certain differential-difference equations. **90e:11133**

Halberstam, H. (*with* Lou, Shi Tuo; Yao, Qi) A new upper bound in the linear sieve. **90e:11134**

— *see also* **Diamond, Harold G.; et al., 90k:11118**

Lou, Shi Tuo *see* **Halberstam, H.; et al., 90e:11134**

Pomykała, Jacek Bilinear form of the remainder term in the Rosser-Iwaniec sieve of dimension $\kappa \in (1/2, 1)$. **90k:11119**

Richert, H.-E. On some functions connected with the sieve. **90e:11135**

— *see also* **Diamond, Harold G.; et al., 90k:11118**

Selberg, Atle Sifting problems, sifting density, and sieves. **90g:11133**

Tsang, Kai Man Remarks on the sieving limit of the Buchstab-Rosser sieve. **90f:11082**

Wheeler, Ferrell S. Two differential-difference equations arising in number theory. **90g:11134**

Yao, Qi *see* **Halberstam, H.; et al., 90e:11134**

Items with secondary classifications in 11N35

Coleman, M. D. On the equation $b_1p - b_2P_2 = b_3$. **90j:11088**

Erdős, Paul (*with* Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] **90i:11098**

Friedlander, John B. On the Brun-Titchmarsh theorem. **90e:11128**

Hildebrand, Adolf (*with* Maier, Helmut) Irregularities in the distribution of primes in short intervals. **90f:11077**

Hinz, Jürgen G. A generalization of Bombieri's prime number theorem to algebraic number fields. **90e:11175**

— Square-free values of cubic polynomials in algebraic number fields. **90g:11131**

Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] **90i:11100**

Maier, Helmut *see* **Hildebrand, Adolf, 90f:11077**

Mikawa, Hiroshi Almost-primes in arithmetic progressions and short intervals. **90m:11136**

Nathanson, Melvyn B. A generalization of the Goldbach-Shnirel′man theorem. **90b:11098**

Nicolas, Jean-Louis *see* **Erdős, Paul, 90i:11098**

Rohrlich, David E. Nonvanishing of *L*-functions for GL(2). **90g:11062**

Sárközy, A. (*with* Stewart, C. L.) On exponential sums over prime numbers. **90d:11096**

Stewart, C. L. *see* **Sárközy, A., 90d:11096**

Zhang, Ming Yao Some new applications of the mean value theorem. (Chinese. English summary) **90k:11130**

Zhang, Wen Peng Average-value estimation of a class of number-theoretic functions. (Chinese) **90k:11124**

11N37 Asymptotic results on arithmetic functions

Abbott, H. L. (*with* Subbarao, M. V.) On the distribution of the sequence $\{nd^*(n)\}$. **90e:11136**

Adhikari, Sukumar Das (*with* Balasubramanian, Ramachandran; Sankaranarayanan, Ayyadurai) An Ω-result related to $r_4(n)$. **90m:11139**

Alladi, K. (*with* Erdős, Paul; Vaaler, J. D.) Multiplicative functions and small divisors. **90h:11089**

— (*with* Erdős, Paul; Vaaler, J. D.) Multiplicative functions and small divisors. II. **90h:11090**

Babaev, G. (*with* Gafurov, N.) Improvement of a result on the sum of powers of divisors of polynomials. (Russian. Tajiki summary) **90e:11137**

Balasubramanian, Ramachandran (*with* Ramachandra, K.) On square-free numbers. **90c:11063**

— *see also* **Adhikari, Sukumar Das; et al., 90m:11139**

Chidambaraswamy, J. On the average of the generalized totient function over polynomial sequences. **90b:11091**

Cobeli, Cristian (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Graham's conjecture under Riemann hypothesis. **90c:11064**

De Koninck, Jean-Marie (*with* Mercier, Armel) Les fonctions arithmétiques et le plus grand facteur premier. [Arithmetic functions and the largest prime factor] **90h:11091**

— (*with* Ivić, Aleksandar) The average prime divisor of an integer in short intervals. **90f:11083**

— (*with* Kátai, Imre; Mercier, Armel) Additive functions and the largest prime factor of integers. **90j:11092**

Elistratov, I. V. The remainder term in Delange's second theorem. (Russian) **90k:11120**

Elliott, P. D. T. A. Multiplicative functions on arithmetic progressions. II. **90d:11106**

— Multiplicative functions on arithmetic progressions. **90h:11092**

— Multiplicative functions $|g| \leq 1$ and their convolutions: an overview. (*see* **90j:11004**)

Erdős, Paul (*with* Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] **90i:11098**

— *see also* **Alladi, K.; et al., 90h:11089** *and* **90h:11090**

Faĭnleĭb, A. S. *see* **Tulyaganova, M. I., 90j:11095**

Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. **90f:11084**

Gafurov, N. *see* **Babaev, G., 90e:11137**

Goryunov, Yu. Yu. Application of a theorem of Vinogradov-Bombieri type to additive problems in number theory. **90c:11065**

Hall, R. R. (*with* Tenenbaum, Gérald) ★ Divisors. **90a:11107**

Heath-Brown, D. R. Consecutive almost-primes. **90h:11093**

Horn, Günter Abschätzungen zum maximalen *k*-ten Potenzteiler. I. [Estimates on the maximal *k*th power divisor. I] **90h:11094**

Indlekofer, Karl-Heinz (*with* Kátai, Imre) Exponential sums with multiplicative coefficients. **90j:11093**

Ivić, Aleksandar *see* **De Koninck, Jean-Marie, 90f:11083**

Kátai, Imre Some remarks on arithmetical functions satisfying linear recursions in short intervals. **90h:11095**

— *see also* **De Koninck, Jean-Marie; et al., 90j:11092** *and* **Indlekofer, Karl-Heinz, 90j:11093**

Kunth, Peter Über eine arithmetische Charakterisierung der multiplikativen, fast-geraden Funktionen. (English summary) [On an arithmetic characterization of multiplicative, almost-even functions] **90i:11099**

Landreau, Bernard Majorations de fonctions arithmétiques en moyenne sur des ensembles de faible densité. [Mean upper bounds for arithmetical functions on sets of weak density] **90i:11100**

— A new proof of a theorem of van der Corput. **90d:11107**

Mačiulis, A. The mean value of multiplicative functions. **90a:11108**

Menzer, Hartmut (*with* Nowak, Werner Georg) On an asymmetric divisor problem with congruence conditions. **90i:11101**

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Meurman, Tom On the Dirichlet divisor problem. (Finnish. English summary) **90h:11096**

Montgomery, Hugh L. Fluctuations in the mean of Euler's phi function. **90e:11138**

Nicolas, Jean-Louis *see* **Erdős, Paul, 90i:11098**

Nowak, Werner Georg On Euler's φ-function in quadratic number fields. **90k:11121**

— On an error term involving the totient function. **90g:11135**

— On a divisor problem in arithmetic progressions. **90k:11122**

— On sums of two coprime *k*th powers. **90k:11123**

— *see also* **Menzer, Hartmut, 90i:11101**

Orazov, M. On the exact order of density of certain numerical sets with restrictions on prime divisors. (Russian. English summary) **90c:11066**

Pétermann, Y.-F. S. Changes of sign of error terms related to Euler's function and to divisor functions. II. **90a:11109**

Ramachandra, K. *see* **Balasubramanian, Ramachandran, 90c:11063**

Robin, Guy Permanence de relations de récurrence dans certains développements asymptotiques. [Persistence of recurrence relations in certain asymptotic expansions] **90c:11067**

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Sita Ramaiah, V. (*with* Subbarao, M. V.) Some asymptotic formulae involving powers of arithmetic functions. **90j:11094**

Subbarao, M. V. *see* **Abbott, H. L., 90e:11136** *and* **Sita Ramaiah, V., 90j:11094**

Tenenbaum, Gérald *see* **Hall, R. R., 90a:11107**

Tolev, D. I. On the division problem in arithmetic progressions. **90c:11068**

— Joint distribution of the fractional parts of different powers of prime numbers. (Russian) **90m:11140**

Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Complete integer lattices, and sums of multiplicative functions. (Russian) **90j:11095**

Turganaliev, R. T. On the Dirichlet divisor problem in quasiprogressions. (Russian. Kazakh summary) **90d:11108**

Vaaler, J. D. *see* **Alladi, K.; et al., 90h:11089** *and* **90h:11090**

Vâjâitu, Marian *see* **Cobeli, Cristian; et al., 90c:11064**

Varbanets, P. D. (*with* Zarzycki, Piotr) Divisors of the Gaussian integers in an arithmetic progression. **90m:11141**

Xuan, Ti Zuo Estimates of certain sums involving the reciprocals of the largest prime factors of integers. (Chinese. English summary) **90d:11109**

— On a problem of Erdős and Ivić. **90f:11085**

— On sums involving reciprocals of certain large additive functions. **90i:11102**

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Zarzycki, Piotr On a certain additive function on the Gaussian integers. **90h:11097**

— *see also* **Varbanets, P. D., 90m:11141**

Zhang, Wen-Bin On a number theoretic series. **90b:11092**

Zhang, Wen Peng Average-value estimation of a class of number-theoretic functions. (Chinese) **90k:11124**

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Balazard, Michel Sur la moyenne des exposants dans la décomposition en facteurs premiers. [On the average of the exponents in prime factorization] **90i:11096**

Bareikis, G. Moderate deviations for arithmetic functions. The local case. (Russian. English and Lithuanian summaries) **90i:11081**

Chidambaraswamy, J. (*with* Krishnaiah, P. V.) On integers *n* with $J_t(n) < J_t(m)$ for $m > n$. **90d:11103**

Elliott, P. D. T. A. The value distribution of differences of additive arithmetic functions. **90g:11108**

Erdős, Paul (*with* Tenenbaum, Gérald) Sur les fonctions arithmétiques liées aux diviseurs consécutifs. [On arithmetical functions associated with consecutive divisors] **90i:11103**

— *see also* **Babu, Gutti Jogesh, 90i:11106**

Graham, S. W. (*with* Kolesnik, G.) On the difference between consecutive squarefree integers. **90b:11082**

— (*with* Pintz, J.) The distribution of *r*-free numbers. **90f:11079**

Grosswald, Emil Some number theoretical products. **90e:11129**

Hafner, James Lee (*with* Ivić, Aleksandar) On sums of Fourier coefficients of cusp forms. **90k:11055**

Hall, R. R. The distribution of squarefree numbers. **90b:11009**

Hildebrand, Adolf (*with* Maier, Helmut) Irregularities in the distribution of primes in short intervals. **90f:11077**

— Multiplicative functions on arithmetic progressions. **90d:11112**

Ivić, Aleksandar *see* **Hafner, James Lee, 90k:11055**

Jutila, M. On exponential sums involving the Ramanujan function. **90c:11057**

Kolesnik, G. *see* **Graham, S. W., 90b:11082**

Krishnaiah, P. V. *see* **Chidambaraswamy, J., 90d:11103**

Maier, Helmut *see* **Hildebrand, Adolf, 90f:11077**

Oesterlé, J. Nouvelles approches du "théorème" de Fermat. [New approaches to Fermat's "theorem"] **90g:11038**

Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. **90c:11053**

Osbaldestin, A. H. (*with* Shiu, P.) A correlated digital sum problem associated with sums of three squares. **90f:11023**

Pintz, J. *see* **Graham, S. W., 90f:11079**

Schinzel, A. (*with* Wirsing, E.) Multiplicative properties of the partition function. **90b:11102**

Schmutz, Eric Proof of a conjecture of Erdős and Turán. **90d:11111**

Shiu, P. *see* **Osbaldestin, A. H., 90f:11023**

Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] **90e:40007**

Stakėnas, V. Additive functions and rational approximations. **90a:11100**

— Additive functions and simultaneous rational approximations. (Russian. English and Lithuanian summaries) **90i:11082**

Szydło, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. I, II. [On sign changes of some arithmetic functions. I, II] **90a:11105**
— Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] **90m:11181**
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11N45 Asymptotic results on counting functions for algebraic and topological structures

Massias, Jean-Pierre (*with* Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. **90e:11139**
Nicolas, Jean-Louis *see* **Massias, Jean-Pierre; et al., 90e:11139**
Orazov, M. Lower bounds in additive problems with sparse sequences. I. (Russian. English summary) **90d:11110**
— Lower bounds in additive problems with sparse sequences. II. (Russian. English summary) **90k:11125**
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Items with secondary classifications in 11N45

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Meir, Amram (*with* Moon, J. W.) On an asymptotic method in enumeration. **90e:05007a**
— (*with* Moon, J. W.) Erratum: "On an asymptotic method in enumeration". **90e:05007b**
Moon, J. W. *see* **Meir, Amram, 90e:05007a** *and* **90e:05007b**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Complete integer lattices, and sums of multiplicative functions. (Russian) **90j:11095**

11N56 Rate of growth of arithmetic functions

Erdős, Paul (*with* Tenenbaum, Gérald) Sur les fonctions arithmétiques liées aux diviseurs consécutifs. [On arithmetical functions associated with consecutive divisors] **90i:11103**
Landreau, Bernard Fonctions multiplicatives et petits diviseurs. (English summary) [Multiplicative functions and small divisors] **90c:11069**
Perelli, A. (*with* Zannier, Umberto) An extremal property of the Möbius function. **90i:11104**
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Items with secondary classifications in 11N56

Erdős, Paul (*with* Nicolas, Jean-Louis) Grandes valeurs de fonctions liées aux diviseurs premiers consécutifs d'un entier. (English summary) [Large values of functions associated with the consecutive prime divisors of an integer] **90i:11098**
Landreau, Bernard A new proof of a theorem of van der Corput. **90d:11107**
Nicolas, Jean-Louis *see* **Erdős, Paul, 90i:11098**

11N60 Distribution functions associated with additive and positive multiplicative functions

Alladi, K. Probabilistic number theory and Brun's sieve. **90e:11140**
— The distribution of additive functions in special sets of integers. **90i:11105**
Babu, Gutti Jogesh (*with* Erdős, Paul) A note on the distribution function of additive arithmetical functions in short intervals. **90i:11106**
Erdős, Paul *see* **Babu, Gutti Jogesh, 90i:11106**
Hildebrand, Adolf Additive and multiplicative functions on shifted primes. **90i:11107**
Kryžius, Zigmantas Letter to the editors: "The distribution of additive arithmetic functions with shifted arguments" [Litovsk. Mat. Sb. **17** (1977), no. 4, 127–138; MR **57** #16241]. **90a:11110**

Items with secondary classifications in 11N60

Elliott, P. D. T. A. The distribution of additive functions defined on short intervals. **90g:11107**
Hildebrand, Adolf An Erdős-Wintner theorem for differences of additive functions. **90a:11099**
Mačiulis, A. The mean value of multiplicative functions. **90a:11108**
Pálfy, P. P. (*with* Szalay, M.) Further probabilistic results on the symmetric p-groups. **90g:11109**
Szalay, M. *see* **Pálfy, P. P., 90g:11109**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Balazard, Michel Distribution des valeurs de la fonction $\Omega_E(N)$. [Distribution of values of the function $\Omega_E(N)$] **90b:11093**
Cohen, Joel M. Monotone multiplicative functions. **90f:11086**
Hildebrand, Adolf Multiplicative functions on arithmetic progressions. **90d:11112**
Indlekofer, Karl-Heinz (*with* Kátai, Imre) On some pairs of multiplicative functions. **90j:11096**
— (*with* Kátai, Imre) Momente additiver Funktionen auf der Folge $\{p+1\}$. (Russian and Lithuanian summaries) [Moments of additive functions on the sequence $\{p+1\}$] **90e:11141**
— (*with* Kátai, Imre) Generalized moments of additive functions. **90j:11097**
Kátai, Imre *see* **Indlekofer, Karl-Heinz, 90e:11141; 90j:11096** *and* **90j:11097**
Shao, Pin Zong On the distribution of the values of arithmetic functions. (Chinese. English summary) **90f:11087**
Smati, A. Répartition des valeurs de la fonction d'Euler. [Distribution of the values of the Euler function] **90h:11098**
Solinas, Jerome A. On the joint distribution of digital sums. **90m:11142**

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Rosochowicz, E. On weak uniform distribution of sequences of integers. **90k:11105**
Ruzsa, Imre Z. On sets of weak uniform distribution. **90k:11106**

11N69 Distribution of integers in special residue classes

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Negmatova, G. D. Distribution of values of nonprincipal characters in sparse sequences. (Russian) **90m:11123**

11N80 Generalized primes and integers

Cohen, Stephen D. The function field abstract prime number theorem. **90j:11098**
Zhang, Wen-Bin Density and O-density of Beurling generalized integers. **90a:11111**

Items with secondary classifications in 11N80

Di Porto, Adina (*with* Filipponi, Piero) More on the Fibonacci pseudoprimes. **90g:11029**
Filipponi, Piero *see* **Di Porto, Adina, 90g:11029**

11N99 None of the above, but in this section

Badea, C. Note on a conjecture of P. D. T. A. Elliott. **90b:11094**
Kunth, Peter Der topologische Dualraum des Raums B^q der q-fastgeraden zahlentheoretischen Funktionen $(0<q<\infty)$. [The topological dual space of the space B^q of the q-almost even number-theoretic functions $(0<q<\infty)$] **90m:11143**
Popov, O. V. On quadratic residues and nonresidues in a sequence of square-free numbers. (Russian) **90m:11144**
Sándor, József Some arithmetic inequalities. **90e:11142**

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Aomoto, K. Correlation functions of the Selberg integral. **90e:33003**
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Kunth, Peter Einige Ergebnisse aus der nicht-multiplikativen B^q-Theorie. [Some results from nonmultiplicative B^q-theory] **90m:46012**
Logan, B. F. An interference problem for exponentials. **90a:42003**
Mauclaire, J.-L. Comments on an article by J. Delsarte: "Essay on the application of the theory of almost periodic functions to arithmetic" [Ann. Sci. École Norm. Sup. (3) **62** (1945), 185–204; MR **8**, 316]. (French) **90k:11008**
Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] **90i:30005**
Ramachandra, K. An application of Borel-Carathéodory theorem. **90j:30034**
Ruzsa, Imre Z. An additive problem for powers of primes. **90g:11139**

11Pxx Additive number theory; partitions

Items with secondary classifications in 11Pxx

Pan, Cheng Biao *see* **Pan, Cheng Dong; et al., 90c:11061**
Pan, Cheng Dong (*with* Pan, Cheng Biao; Xie, Sheng Gang) Analytic number theory in China. II. **90c:11061**
Xie, Sheng Gang *see* **Pan, Cheng Dong; et al., 90c:11061**

11P05 Waring's problem and variants, sums of different powers

Arenas, A. An arithmetic problem on the sums of three squares. **90c:11070**
Baker, R. C. Diagonal cubic equations. I. **90k:11126**
Balachandran, Krishnan *see* **Thandapani, E.; et al., 90c:11071**
Balasubramanian, G. *see* **Thandapani, E.; et al., 90c:11071**
Brüdern, Jörg Sums of four cubes. **90g:11136**
Chen, Jing Run (*with* Li, Jian Yu[2]) On the sums of powers of natural numbers. (Chinese summary) **90i:11108**
Delmer, Francine (*with* Deshouillers, Jean-Marc) On the computation of $g(k)$ in Waring's problem. **90i:11109**
Deshouillers, Jean-Marc *see* **Delmer, Francine, 90i:11109**
Heath-Brown, D. R. Weyl's inequality, Hua's inequality, and Waring's problem. **90a:11112**
— Weyl's inequality and Hua's inequality. **90i:11110**
Li, Jian Yu[2] *see* **Chen, Jing Run, 90i:11108**
Mit'kin, D. A. Waring's problem with different polynomials. **90f:11088**
Müller, Wolfgang[2] (*with* Nowak, Werner Georg) On a mean-value theorem concerning differences of two kth powers. **90h:11099**
Nguen Khak Tkhan' An asymptotic formula for an arithmetic sum. (Russian) **90b:11095**
Nowak, Werner Georg *see* **Müller, Wolfgang[2], 90h:11099**
Plaksin, V. A. The distribution of numbers represented by the sum of two squares. **90a:11113**
(Ramanujan, Srinivasa) *see* **Thandapani, E.; et al., 90c:11071**
Thandapani, E. (*with* Balasubramanian, G.; Balachandran, Krishnan) Problems of perfect squares and cubes in *Ramanujan's Notebooks*. **90c:11071**
Vaughan, R. C. Recent work on Waring's problem. **90b:11096**
— A new iterative method in Waring's problem. **90c:11072**
— On Waring's problem for cubes. II. **90c:11073**
— A new iterative method in Waring's problem. II. **90c:11074**
Zenkin, A. A. Waring's problem: $g(1,4)=21$ for fourth powers of positive integers. **90k:11127**

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Faĭziev, R. F. New identities for the product of sums of four squares and their applications. (Russian. Tajiki summary) **90a:11045**
Israilov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) **90k:11131**
Merzlyakov, A. S. Formulas of Liouville type for the sum of squares in quadratic number fields. (Russian) (*see* **90h:11001**)
Nowak, Werner Georg On sums of two coprime kth powers. **90k:11123**
Piyadina, Zh. V. An analogue of the Hardy-Littlewood equation. **90m:11148**
Watt, N. A problem on semicubical powers. **90i:11083**

11P16 Additive questions concerning r-free numbers

Chubarikov, V. N. An additive problem with power-free numbers. (Russian) **90e:11143**

11P21 Lattice points in specified regions

Ablyalimov, S. B. Sharpening a theorem on lattice points. (Russian) **90k:11128**
Babanazarov, B. *see* **Tulyaganova, M. I., 90d:11113**
Bombieri, E. (*with* Pila, J.) The number of integral points on arcs and ovals. **90j:11099**
Huxley, M. N. The area within a curve. **90b:11097**
Krätzel, Ekkehard ★ Lattice points. **90e:11144**
Martin, T. Ein Gitterpunktproblem in der hyperbolischen Ebene. (English and Russian summaries) [A lattice point problem in the hyperbolic plane] **90i:11111**
Pila, J. *see* **Bombieri, E., 90j:11099**
Trifonov, O. On the number of the lattice points in some two-dimensional domains. **90e:11145**
Tulyaganova, M. I. (*with* Babanazarov, B.) Distribution of prime vectors of the integer lattice in small multidimensional cubes. (Russian) **90d:11113**

Items with secondary classifications in 11P21

Duke, W. Lattice points on ellipsoids. **90e:11052**
— (*with* Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. **90m:11051**
Erdős, Paul (*with* Gruber, Peter M.; Hammer, Joseph) ★ Lattice points. **90g:11081**
Grekos, Georges Sur le nombre de points entiers d'une courbe convexe. (English summary) [On the number of integer points of a convex curve] **90e:11095**
Gruber, Peter M. *see* **Erdős, Paul; et al., 90g:11081**
Hammer, Joseph *see* **Erdős, Paul; et al., 90g:11081**
Lemke, Paul A counterexample to a conjecture of Abbott. **90c:52018**
Menzer, Hartmut *see* **Müller, Wolfgang²; et al., 90b:11020**
Metzler, Hans Über die Anzahl der Gitterpunkte auf der Kreislinie mit $x^2+y^2=z$. [On the number of lattice points on the circle with $x^2+y^2=z$] **90k:11025**
Müller, Wolfgang² (*with* Nowak, Werner Georg; Menzer, Hartmut) On the number of primitive Pythagorean triangles. (French summary) **90b:11020**
Nowak, Werner Georg On sums of two coprime kth powers. **90k:11123**
— *see also* **Müller, Wolfgang²; et al., 90b:11020**
Schulze-Pillot, Rainer *see* **Duke, W., 90m:11051**
Schuster, Reinhard A lattice problem for differential forms in Euclidean spaces. (German and Russian summaries) **90j:11105**

11P32 Goldbach-type theorems

Chen, Jing Run (*with* Liu, Jian Min²) The exceptional set of Goldbach-numbers. III. (Chinese summary) **90k:11129**
Gritsenko, S. A. The ternary Goldbach problem and the Goldbach-Waring problem with prime numbers lying in intervals of special type. **90a:11114**
Hua, Luo Geng A direct attempt to Goldbach problem. **90d:11114**
Liu, Jian Min² *see* **Chen, Jing Run, 90k:11129**
Liu, Ming Chit (*with* Tsang, Kai Man) Small prime solutions of linear equations and the exceptional set in Goldbach's problem. **90c:11075**
Nathanson, Melvyn B. A generalization of the Goldbach-Shnirel′man theorem. **90b:11098**
Pintz, J. A note on the exceptional set in Goldbach's problem. **90e:11146**
Sultanova, A. A. The Vinogradov-Goldbach theorem with restrictions on the terms. (Russian) **90j:11100**
Tanaka, Minoru¹ Some results on additive number theory. V. **90m:11145**
Tsang, Kai Man *see* **Liu, Ming Chit, 90c:11075**
Zhang, Ming Yao Some new applications of the mean value theorem. (Chinese. English summary) **90k:11130**

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Liu, Ming Chit (*with* Tsang, Kai Man) On pairs of linear equations in three prime variables and an application to Goldbach's problem. **90g:11137**
Tsang, Kai Man *see* **Liu, Ming Chit, 90g:11137**

11P45 Other additive questions involving primes

Balog, A. On additive representation of integers. **90m:11146**
Liu, Ming Chit (*with* Tsang, Kai Man) Small prime solutions of linear equations. **90i:11112**
— (*with* Tsang, Kai Man) On pairs of linear equations in three prime variables and an application to Goldbach's problem. **90g:11137**
Sárközy, A. (*with* Stewart, C. L.) On divisors of sums of integers. IV. **90c:11076**
Stewart, C. L. *see* **Sárközy, A., 90c:11076**
Tsang, Kai Man *see* **Liu, Ming Chit, 90g:11137** *and* **90i:11112**

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Rakhmonov, Z. Kh. The distribution of Hardy-Littlewood numbers in arithmetic progressions. **90g:11130**
Sárközy, A. Hybrid problems in number theory. **90m:11137**
Srinivasan, Seshadri A Diophantine inequality with prime variables. **90a:11042**
Zhan, Tao On a theorem of Darvenport [Davenport]. (Chinese summary) **90f:11070**

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Israilov, M. I. Asymptotic expansion of the number of representations of numbers by a sum of polynomials with a growing number of terms. (Russian) **90k:11131**
Lomadze, G. A. Representation of numbers by sums of the quadratic forms $x_1^2+x_1x_2+x_2^2$. (Russian) **90m:11147**
Patterson, S. J. A heuristic principle and applications to Gauss sums. **90g:11138**
Piyadina, Zh. V. An analogue of the Hardy-Littlewood equation. **90m:11148**
Ruzsa, Imre Z. An additive problem for powers of primes. **90g:11139**

Items with secondary classifications in 11P55

Arenas, A. Quantitative aspects of the representations of integers by quadratic forms. **90k:11037**
Bourgain, J. An approach to pointwise ergodic theorems. **90b:28016**
Brüdern, Jörg Sums of four cubes. **90g:11136**
Cook, Roger J. Computations for additive Diophantine equations: pairs of quintic congruences. II. **90b:11030**
Duke, W. (*with* Schulze-Pillot, Rainer) Representation of integers by positive ternary quadratic forms and equidistribution of lattice points on ellipsoids. **90m:11051**
Heath-Brown, D. R. Weyl's inequality and Hua's inequality. **90i:11110**
Huxley, M. N. (*with* Watt, N.) Exponential sums with a parameter. **90h:11075**
Kulmatov, A. K. On the finiteness of the number of classes of primitive quadratic forms of Liouville type. (Russian) **90b:11035**
Liu, Ming Chit (*with* Tsang, Kai Man) Small prime solutions of linear equations. **90i:11112**
Pintz, J. A note on the exceptional set in Goldbach's problem. **90e:11146**
Rausch, Ulrich Eine Formel für die Koeffizientensumme von Potenzreihen mit Anwendung auf das Kreis- und Kugelproblem in total reellen algebraischen Zahlkörpern. [A formula for the sum of the coefficients of power series with application to the circle and sphere problem in totally real algebraic number fields] **90a:11138**
Sárközy, A. Hybrid problems in number theory. **90m:11137**
Schulze-Pillot, Rainer *see* **Duke, W., 90m:11051**
Srinivasan, Seshadri A Diophantine inequality with prime variables. **90a:11042**
Toliver, Ralph Haeger Bounds for solutions of two additive equations of odd degree. **90g:11040**
Tsang, Kai Man *see* **Liu, Ming Chit, 90i:11112**
Vepkhvadze, T. V. Representation of numbers by positive quadratic forms with five variables. (Russian) **90d:11045**
Wang, Yuan¹ Diophantine inequalities for forms in an algebraic number field. **90c:11021**
Watt, N. *see* **Huxley, M. N., 90h:11075**
Wolke, Dieter Über das Primzahl-Zwillingsproblem. [On the prime twin problem] **90k:11117**

11P57 Partitions: recurrence relations, generating functions, etc.

Andrews, George (*with* Baxter, Rodney James) A motivated proof of the Rogers-Ramanujan identities. **90e:11147**
Baxter, Rodney James *see* **Andrews, George, 90e:11147**
Kelly, John B. Partitions with equal products. II. **90e:11148**
Kwong, Y. H. Harris Minimum periods of partition functions modulo M. **90b:11099**
Langlands, R. P. The factorization of a polynomial defined by partitions. **90j:11101**
Padmavathamma The Hardy-Ramanujan-Rademacher expansion for restricted generalised Frobenius partitions. **90b:11100**
Viennot, Gérard Xavier Bijections for the Rogers-Ramanujan reciprocal. **90m:11149**

Items with secondary classifications in 11P57

Agarwal, Ashok Kumar¹ On a generalized partition theorem. **90e:11149**
— Bijective proofs of some n-color partition identities. **90g:05023**
— New combinatorial interpretations of two analytic identities. **90g:05027**
Andrews, George Physics, Ramanujan, and computer algebra. **90d:05025**
Biedenharn, L. C. (*with* Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. **90m:22031**
Bressoud, David M. Almost poised basic hypergeometric series. **90e:33010**
— Lattice paths and the Rogers-Ramanujan identities. **90k:05009**
— In the land of OZ. **90j:05012**
Cameron, Peter J. Some sequences of integers. **90i:05011**
Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models. II. Proof of the star-triangle relation and combinatorial identities. **90e:82077**
Gasper, George Bibasic summation, transformation and expansion formulas, q-analogues of Clausen's formula, and nonnegative basic hypergeometric series. **90j:05025**
Goodman, Fred (*with* O'Hara, Kathleen M.) On the Gaussian polynomials. **90j:05026a**
Hirschhorn, Michael D. A generalisation of Winquist's identity and a conjecture of Ramanujan. **90e:11152**
Jimbo, Michio *see* **Date, E.; et al., 90e:82077**
Kuniba, A. *see* **Date, E.; et al., 90e:82077**
Louck, J. D. *see* **Biedenharn, L. C., 90m:22031**
Macdonald, I. G. An elementary proof of a q-binomial identity. **90j:05026c**
Milne, S. C. A q-analog of the Gauss summation theorem for hypergeometric series in U(n). **90c:33006**
Miwa, Tetsuji *see* **Date, E.; et al., 90e:82077**
O'Hara, Kathleen M. Unimodality of Gaussian coefficients: a constructive proof. **90k:05024**
— *see also* **Goodman, Fred, 90j:05026a**
Okado, Masato *see* **Date, E.; et al., 90e:82077**
Propp, James Some variants of Ferrers diagrams. **90h:05022**

Tracy, Craig A. Introduction to exactly solvable models in statistical mechanics. **90f:82008**

Van der Jeugt, J. Unimodal polynomials arising from Lie superalgebras. **90e:17013**

Zeilberger, Doron Identities. **90i:05010**

— A one-line high school algebra proof of the unimodality of the Gaussian polynomials $\left[{n \atop k}\right]$ for $k < 20$. **90j:05026b**

11P65 Partitions: multipartite, and related problems

Freiman, G. On extremal additive problems of Paul Erdős. **90b:11101**

Items with secondary classifications in 11P65

Biagioli, Anthony J. A proof of some identities of Ramanujan using modular forms. **90m:11060**

Propp, James Some variants of Ferrers diagrams. **90h:05022**

11P68 Partitions: restricted by congruence, inequality or repetition conditions

Agarwal, Ashok Kumar^1 On a generalized partition theorem. **90e:11149**

— (*with* Andrews, George; Bressoud, David M.) The Bailey lattice. **90i:11113**

Andrews, George (*with* Garvan, F. G.) Ramanujan's "lost" notebook. VI. The mock theta conjectures. **90d:11115**

— *see also* **Agarwal, Ashok Kumar^1; et al., 90i:11113**

Bressoud, David M. *see* **Agarwal, Ashok Kumar^1; et al., 90i:11113**

Dixmier, Jacques Sur les sous-sommes d'une partition. (English summary) [On the subsums of a partition] **90h:11100**

Erdős, Paul (*with* Nicolas, Jean-Louis; Szalay, M.) Partitions into parts which are unequal and large. **90g:11140**

Garvan, F. G. (*with* Stanton, Dennis) Sieved partition functions and q-binomial coefficients. **90j:11102**

— *see also* **Andrews, George, 90d:11115**

Kannan, V. Rogers-Ramanujan identities—an elementary introduction. **90e:11150**

Kolitsch, Louis Worthy A relationship between certain colored generalized Frobenius partitions and ordinary partitions. **90m:11150**

Nicolas, Jean-Louis *see* **Erdős, Paul; et al., 90g:11140**

Schinzel, A. (*with* Wirsing, E.) Multiplicative properties of the partition function. **90b:11102**

Stanton, Dennis *see* **Garvan, F. G., 90j:11102**

Szalay, M. *see* **Erdős, Paul; et al., 90g:11140**

Wirsing, E. *see* **Schinzel, A., 90b:11102**

Yang, Kung-Wei On the product $\prod_{n\geq 1}(1+q^n x+q^{2n}x^2)$. **90i:11114**

Items with secondary classifications in 11P68

Andrews, George Mock theta functions. **90h:33005**

Joyce, G. S. On the icosahedral equation and the locus of zeros for the grand partition function of the hard-hexagon model. **90e:82101**

Stembridge, John R. Hall-Littlewood functions, plane partitions, and the Rogers-Ramanujan identities. **90j:05021**

11P72 Partitions: asymptotic, convergent series expansions

Erdős, Paul (*with* Nicolas, Jean-Louis; Sárközy, A.) On the number of partitions of n without a given subsum. I. **90e:11151**

Nicolas, Jean-Louis *see* **Erdős, Paul; et al., 90e:11151**

Sárközy, A. *see* **Erdős, Paul; et al., 90e:11151**

Items with secondary classifications in 11P72

Dixmier, Jacques Sur les sous-sommes d'une partition. (English summary) [On the subsums of a partition] **90h:11100**

Vaĭsburd, I. D. A real section of the moduli space and the partition function of the open bosonic string. **90d:81122**

11P76 Partitions: congruences for partition functions

Achuthan, P. (*with* Sundar, S.) Ramanujan functions, continued fractions and rational approximants. **90j:11103**

Hirschhorn, Michael D. A generalisation of Winquist's identity and a conjecture of Ramanujan. **90e:11152**

Raghavan, Srinivasacharya On Ramanujan's modular identities. **90j:11104**

Sundar, S. *see* **Achuthan, P., 90j:11103**

Items with secondary classifications in 11P76

Hickerson, Dean On the seventh order mock theta functions. **90f:11028b**

11P80 Partitions: miscellaneous results

Anshel, Michael (*with* Goldfeld, Dorian) Applications of the Hardy-Ramanujan partition theory to linear Diophantine problems. **90i:11115**

Goldfeld, Dorian *see* **Anshel, Michael, 90i:11115**

Items with secondary classifications in 11P80

Almkvist, Gert Proof of a conjecture about unimodal polynomials. **90g:05024**

Atkinson, M. D. Perfect addition tables and applications to array storage. **90g:68041**

Baranov, V. I. (*with* Stechkin, B. S.) ★ Экстремальные комбинаторные задачи и их приложения. (Russian) [Extremal combinatorial problems and their applications] **90m:05001**

Christe, P. (*with* Ravanini, F.) $G_N \otimes G_L/G_{N+L}$ conformal field theories and their modular invariant partition functions. **90j:81179**

Erdős, Paul (*with* Sárközy, A.; Sós, V. T.) On a conjecture of Roth and some related problems. I. **90d:11017**

Marlowe, T. J. (*with* Paull, M. C.) Least-cost partition algorithms. **90b:11143**

Moreno, C. J. (*with* Rocha-Caridi, A.) The exact formula for the weight multiplicities of affine Lie algebras. I. **90c:17036**

Padmavathamma On Andrews' generalized Frobenius partitions. **90k:05019**

Paull, M. C. *see* **Marlowe, T. J., 90b:11143**

Ravanini, F. *see* **Christe, P., 90j:81179**

Rocha-Caridi, A. *see* **Moreno, C. J., 90c:17036**

Sárközy, A. *see* **Erdős, Paul; et al., 90d:11017**

Shao, Jia Yu Some computational formulas for the Frobenius numbers. (Chinese. English summary) **90h:11021**

Sós, V. T. *see* **Erdős, Paul; et al., 90d:11017**

Stechkin, B. S. *see* **Baranov, V. I., 90m:05001**

Torriani, Hugo H. Constructive implicit function theorems. **90h:05017**

11P99 None of the above, but in this section

Items with secondary classifications in 11P99

Gauthier, N. Derivation of a formula for $\sum r^k x^r$. **90j:11016**

Li, Bao Qin (*with* Song, Guo Dong^1) On Goldbach problem concerning factorization of meromorphic functions. **90m:30031**

Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] **90i:30005**

Nathanson, Melvyn B. (*with* Sárközy, A.) On the maximum density of minimal asymptotic bases. **90a:11021**

Pathria, R. K. *see* **Singh, Surjit^2, 90e:11062**

Recknagel, Winfried Über k-freie Zahlen als Summe von zwei Quadraten. [On k-free numbers as sum of two squares] **90d:11104**

Sárközy, A. *see* **Nathanson, Melvyn B., 90a:11021**

Singh, Surjit^2 (*with* Pathria, R. K.) Analytical evaluation of a class of lattice sums in arbitrary dimensions. **90e:11062**

Song, Guo Dong^1 *see* **Li, Bao Qin, 90m:30031**

Vaserstein, L. N. Noncommutative number theory. **90d:11033**

Zannier, Umberto On a theorem of Birch concerning sums of distinct integers taken from certain sequences. **90h:11011**

11Qxx Other arithmetic-analytic topics

11Q05 Analytic functions

Items with secondary classifications in 11Q05

Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. [Recognizability criterion for analytic functions and arithmetical entire functions] **90b:30030**

Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] **90c:11015**

Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. I. **90d:68031a**

— (*with* Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. II. **90d:68031b**

Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90d:68031a** *and* **90d:68031b**

Langevin, M. Problème de Favard pour les corps quadratiques imaginaires et majoration des discriminants. (English summary) [Favard's problem for imaginary quadratic fields and discriminant bounds] **90d:11116**

Li, Bao Qin (*with* Song, Guo Dong^1) On Goldbach problem concerning factorization of meromorphic functions. **90m:30031**

Song, Guo Dong^1 *see* **Li, Bao Qin, 90m:30031**

11Q10 Differential equations

Items with secondary classifications in 11Q10

Nesterenko, Yu. V. Estimates for the number of zeros of certain functions. **90d:11085**

Wheeler, Ferrell S. Two differential-difference equations arising in number theory. **90g:11134**

11Q15 Probability theory and ergodic theory

Items with secondary classifications in 11Q15

Hellekalek, P. (*with* Larcher, G.) On Weyl sums and skew products over irrational rotations. **90m:28019**

Larcher, G. *see* **Hellekalek, P., 90m:28019**

11Q20 Fourier analysis, approximation theory; functional analysis

Bykovskiĭ, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. **90c:11077**

Klusch, Dieter On Mellin-Ramanujan expansions. **90k:11132**

Items with secondary classifications in 11Q20

Mirmukhamedov, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) **90k:42049**

Takahashi, Shigeru An asymptotic behavior of $\{f(n_k t)\}$. **90m:26004**

11Q25 Non-Archimedean analysis

Denef, J. Multiplicity of the poles of the Poincaré series of a p-adic subanalytic set. **90f:11089**

Hà Huy Khoái (*with* My Vinh Quang) On p-adic Nevanlinna theory. **90e:11153**

My Vinh Quang *see* **Hà Huy Khoái, 90e:11153**

Items with secondary classifications in 11Q25

André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] **90f:12008**

Aref'eva, I. Ya. (*with* Dragović, B. G.; Volovich, I. V.) On the adelic string amplitudes. **90a:81108**

— (*with* Dragović, B. G.; Volovich, I. V.) p-adic superstrings. **90a:81109**

Brekke, Lee (*with* Freund, Peter G. O.; Melzer, Ezer; Olson, Mark) Adelic string N-point amplitudes. **90g:81215**

De Grande-De Kimpe, N. (*with* Pérez-Garciá, Cristina) Weakly closed subspaces and the Hahn-Banach extension property in p-adic analysis. **90a:46196**

Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 90a:81108** *and* **90a:81109**

Freund, Peter G. O. Real, p-adic and adelic strings. (*see* **90m:81002**)

— *see also* **Brekke, Lee; et al., 90g:81215**

Grossman, Bernard The adelic components of the index of the Dirac operator. **90b:81126**

Knopfmacher, Arnold (*with* Knopfmacher, John) Series expansions in p-adic and other non-Archimedean fields. **90i:11073**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90i:11073**

Malyuta, Yu. M. A p-adic oscillator. (Russian. English summary) **90b:58269**

Melzer, Ezer Non-Archimedean conformal field theories. **90j:81227**

— *see also* **Brekke, Lee; et al., 90g:81215**

Missarov, M. D. Random fields on the adèle ring and Wilson's renormalization group. (French summary) **90m:81075**

Olson, Mark *see* **Brekke, Lee; et al., 90g:81215**

Pérez-Garciá, Cristina *see* **De Grande-De Kimpe, N., 90a:46196**

Ruelle, Ph. (*with* Thiran, E.; Verstegen, D.; Weyers, J.) Adelic string and superstring amplitudes. **90h:81188**

Spokoĭnyĭ, B. L. Non-Archimedean geometry and quantum mechanics. **90j:81071**

Thiran, E. *see* **Ruelle, Ph.; et al., 90h:81188**

Verstegen, D. *see* **Ruelle, Ph.; et al., 90h:81188**

Volovich, I. V. p-adic quantum theory and strings. (*see* **90m:81002**)

— *see also* **Aref'eva, I. Ya.; et al., 90a:81108** *and* **90a:81109**

Weyers, J. *see* **Ruelle, Ph.; et al., 90h:81188**

11Q99 None of the above, but in this section

Schuster, Reinhard A lattice problem for differential forms in Euclidean spaces. (German and Russian summaries) **90j:11105**

Items with secondary classifications in 11Q99

Rumely, Robert Notes on van der Poorten's proof of the Hadamard quotient theorem. I, II. **90d:11090**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

11R04 Algebraic numbers: general

Blanksby, P. E. (*with* Lloyd-Smith, C. W.; McAuley, M. J.) On diameters of algebraic integers. **90j:11106**

Bombieri, E. (*with* Vaaler, J. D.) Polynomials with low height and prescribed vanishing. **90k:11133**

Greaves, A. (*with* Odoni, R. W. K.) Weil-numbers and CM-fields. I. **90a:11115**

Just, Bettina Integer relations among algebraic numbers. **90e:11154**

Langevin, M. Solution et histoire d'un problème de Favard. [Solution and history of a problem of Favard] **90g:11141**

— (*with* Reyssat, É.; Rhin, Georges) Diamètres transfinis et problème de Favard. (English summary) [Transfinite diameters and the Favard problem] **90b:11103**

— Solution des problèmes de Favard. (English summary) [Solution of Favard problems] **90b:11104**

— Problème de Favard pour les corps quadratiques imaginaires et majoration des discriminants. (English summary) [Favard's problem for imaginary quadratic fields and discriminant bounds] **90d:11116**

— (*with* Reyssat, É.; Rhin, Georges) Transfinite diameter and Favard's problems on diameters of algebraic integers. **90j:11107**

Lloyd-Smith, C. W. *see* **Blanksby, P. E.; et al., 90j:11106**

McAuley, M. J. *see* **Blanksby, P. E.; et al., 90j:11106**

McDaniel, Wayne L. An analogue in certain unique factorization domains of the Euclid-Euler theorem on perfect numbers. **90k:11134**

Odoni, R. W. K. *see* **Greaves, A., 90a:11115**

Reyssat, É. *see* **Langevin, M.; et al., 90b:11103** *and* **90j:11107**

Rhin, Georges *see* **Langevin, M.; et al., 90b:11103** *and* **90j:11107**

Tanimoto, Hiroshi Root closedness of $Z[\sqrt[n]{m}]$. **90j:11108**

Vaaler, J. D. *see* **Bombieri, E., 90k:11133**

Items with secondary classifications in 11R04

Helou, Charles On rational reciprocity. **90g:11007**

Loxton, J. H. (*with* van der Poorten, A. J.) Arithmetic properties of automata: regular sequences. **90a:11082**

van der Poorten, A. J. *see* **Loxton, J. H., 90a:11082**

Sakkalis, Takis Signs of algebraic numbers. **90m:12004**

11R06 PV-numbers and generalizations; other special algebraic numbers

Bazylewicz, A. An extension of a result of C. J. Smyth to polynomials in several variables. **90c:11078**

Bertin, M.-J. (*with* Pathiaux-Delefosse, Martine) ★ Conjecture de Lehmer et petits nombres de Salem. (French) [Lehmer's conjecture and small Salem numbers] **90f:11090**

— Généralisation de suites de Pisot et de suites de Boyd. [Generalization of Pisot sequences and Boyd sequences] **90j:11109**

Pathiaux-Delefosse, Martine *see* **Bertin, M.-J., 90f:11090**

Items with secondary classifications in 11R06

Berend, Daniel Density mod 1 of multiplicative semigroups in topological fields. **90d:11094**

Greaves, A. (*with* Odoni, R. W. K.) Weil-numbers and CM-fields. I. **90a:11115**

Odoni, R. W. K. *see* **Greaves, A., 90a:11115**

Smyth, C. J. Congruences for symmetric functions. **90d:11007**

11R09 Polynomials (irreducibility, etc.)

Dèbes, Pierre Résultats récents liés au théorème d'irréductibilité de Hilbert. [Recent results related to Hilbert's irreducibility theorem] **90m:11151**

Gilmer, Robert Sets that determine integer-valued polynomials. **90g:11142**

Grosswald, Emil On the irreducibility of Bessel polynomials. **90a:11116**

Narkiewicz, W. Polynomial cycles in algebraic number fields. **90k:11135**

Schinzel, A. Reducibility of lacunary polynomials. IX. **90a:11117**

Steidl, Gabriele (*with* Tasche, Manfred) On a number-theoretic result of Sylvester-Kronecker-Zsigmondy. **90g:11143**

Tasche, Manfred *see* **Steidl, Gabriele, 90g:11143**

Items with secondary classifications in 11R09

Bremner, Andrew The equation $xyz = x + y + z = 1$ in integers of a cubic field. **90i:11029**

Gerboud, Gilbert Construction, sur un anneau de Dedekind, d'une base réguliere de polynômes à valeurs entières. (English summary) [Construction of a regular basis of integer-valued polynomials over a Dedekind ring] **90h:13016**

Gilmer, Robert (*with* Heinzer, William; Lantz, David; Smith, William W.) The ring of integer-valued polynomials of a Dedekind domain. **90h:13017**

Hänler, M. *see* **Steidl, Gabriele; et al., 90m:11154**

Heinzer, William *see* **Gilmer, Robert; et al., 90h:13017**

Lantz, David *see* **Gilmer, Robert; et al., 90h:13017**

Mollin, R. A. (*with* Williams, Hugh Cowie) Prime producing quadratic polynomials and real quadratic fields of class number one. **90m:11153**

Smith, William W. *see* **Gilmer, Robert; et al., 90h:13017**

Steidl, Gabriele (*with* Hänler, M.; Tasche, Manfred) On a number-theoretic result of Zsigmondy in domains of quadratic integers. **90m:11154**

Tasche, Manfred *see* **Steidl, Gabriele; et al., 90m:11154**

Williams, Hugh Cowie *see* **Mollin, R. A., 90m:11153**

11R11 Quadratic extensions

Cougnard, Jean Résultats récents sur la monogénéité de certains anneaux d'entiers. [Recent results on the monogeneity of certain rings of integers] **90e:11155**

— Génération de l'anneau des entiers des corps de classes de $\mathbf{Q}(i)$ de rayon impair et points de division de $y^2 = x^2 - x$. (English summary) [Generation of the ring of integers of odd ray class fields of $\mathbf{Q}(i)$ and division points of $y^2 = x^2 - x$] **90a:11118**

Cremona, J. E. (*with* Odoni, R. W. K.) A generalization of a result of Iwasawa on the capitulation problem. **90m:11152**

Desnoux, Pierre-Jean Congruences dyadiques entre nombres de classes de corps quadratiques. (English summary) [Dyadic congruences between class numbers of quadratic fields] **90c:11079**

Hänler, M. *see* **Steidl, Gabriele; et al., 90m:11154**

Hausman, Miriam On norm abundant Gaussian integers. **90e:11156**

Horie, Kuniaki (*with* Ônishi, Yoshihiro) The existence of certain infinite families of imaginary quadratic fields. **90e:11157**

Iwasawa, Kenkichi A note on capitulation problem for number fields. **90k:11136**

Le, Mao Hua On the divisibility of the class number of the imaginary quadratic field $Q(\sqrt{a^2 - 4k^n})$. **90d:11117**

Leu, Ming-Guang On a determination of certain real quadratic fields of class number two. **90j:11110**

— On a problem of Ono and quadratic nonresidues. **90j:11111**

Louboutin, Stéphane Continued fractions and real quadratic fields. **90a:11119**

Lu, Hong Wen A congruence for the class numbers of real quadratic fields. (Chinese. English summary) **90a:11120**

Mollin, R. A. (*with* Williams, Hugh Cowie) On prime valued polynomials and class numbers of real quadratic fields. **90c:11080**

— (*with* Williams, Hugh Cowie) Prime producing quadratic polynomials and real quadratic fields of class number one. **90m:11153**

— (*with* Williams, Hugh Cowie) Real quadratic fields of class number one and continued fraction period less than six. **90b:11105**

Nagata, Masayoshi A pairwise algorithm and its application to $Z[\sqrt{14}]$. **90a:11121**

Odoni, R. W. K. *see* **Cremona, J. E., 90m:11152**

Ônishi, Yoshihiro *see* **Horie, Kuniaki, 90e:11157**

Ramanathan, K. G. Some applications of Kronecker's limit formula. **90j:11112**

Ribenboim, P. Euler's famous prime-generating polynomial and the class number of imaginary quadratic fields. (Spanish) **90d:11118**

Saito, Michiyo (*with* Wada, Hideo) Tables of ideal class groups of real quadratic fields. **90a:11122**

Steidl, Gabriele (*with* Hänler, M.; Tasche, Manfred) On a number-theoretic result of Zsigmondy in domains of quadratic integers. **90m:11154**

Stephens, A. J. (*with* Williams, Hugh Cowie) Computation of real quadratic fields with class number one. **90b:11106**

Tapia-Recillas, H. (*with* Valle Can, J.) Non-Euclidean principal-ideal domains of algebraic integers. (Spanish) **90e:11158**

Tasche, Manfred *see* **Steidl, Gabriele; et al., 90m:11154**

Valle Can, J. *see* **Tapia-Recillas, H., 90e:11158**

Wada, Hideo *see* **Saito, Michiyo, 90a:11122**

Williams, Hugh Cowie *see* **Mollin, R. A., 90b:11105; Stephens, A. J., 90b:11106; Mollin, R. A., 90c:11080** *and* **90m:11153**

Yokoi, Hideo Some relations among new invariants of prime number p congruent to 1 mod 4. **90b:11107**

Zhang, Xian Ke Congruences modulo 8 for class numbers of general quadratic fields $\mathbf{Q}(\sqrt{m})$ and $\mathbf{Q}(\sqrt{-m})$. **90k:11137**

Zhao, Yong Gan A condition for an algebraic integer β in a quadratic Euclidean field $\mathbf{Q}(\sqrt{d})$ ($d \equiv 3 \bmod 4$) to have a primitive root. (Chinese. English summary) **90g:11144**

Items with secondary classifications in 11R11

Afef'eva, I. Ya. (*with* Dragović, B. G.; Volovich, I. V.) Open and closed p-adic strings and quadratic extensions of number fields. **90a:81106**

Agoh, Takashi A note on unit and class number of real quadratic fields. **90i:11124**

Buchmann, J. (*with* Williams, Hugh Cowie) A key-exchange system based on imaginary quadratic fields. **90g:11166**

Choie, YoungJu Rational period functions for the modular group and real quadratic fields. **90i:11054**

Conner, P. E. (*with* Hurrelbrink, J.) ★ Class number parity. **90f:11092**

Cox, David A. ★ Primes of the form $x^2 + ny^2$. **90m:11016**

Datskovsky, Boris A. (*with* Wright, David J.) Density of discriminants of cubic extensions. **90b:11112**

Desnoux, Pierre-Jean Congruences dyadiques entre nombres de classes de corps quadratiques. [2-adic congruences between class numbers of quadratic fields] **90h:11103**

Dragović, B. G. *see* **Afef'eva, I. Ya.; et al., 90a:81106**

Fujii, Akio Some problems of Diophantine approximation and a Kronecker's limit formula. **90f:11084**

Geroldinger, Alfred (*with* Lettl, Günter) Factorization problems in semigroups. **90h:20094**

Golubeva, E. P. On the lengths of the periods of a continued fraction expansion of quadratic irrationalities and on the class numbers of real quadratic fields. II. (Russian) **90c:11085**

Gras, Georges Relations congruentielles linéaires entre nombres de classes de corps quadratiques. [Linear congruence relations between class numbers of quadratic fields] **90i:11127**

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Ishii, Noburo *see* **Halter-Koch, Franz, 90j:11123**

Ito, Shunji *see* **Hara, Yuko, 90m:11021**

Kaltofen, Erich (*with* Rolletschek, Heinrich) Computing greatest common divisors and factorizations in quadratic number fields. **90a:11154**

Kambayashi, Tatsuji (*with* Takano, Yoshinori) On the arithmetic of quadratic function fields. **90j:11129**

Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. **90j:11032**

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Mollin, R. A. (*with* Williams, Hugh Cowie) Period four and real quadratic fields of class number one. **90i:11129**

Ono, Takashi On some arithmetic properties of certain quadratic fibrations. **90e:11054**

Oriat, Bernard Groupes des classes d'idéaux des corps quadratiques réels $\mathbf{Q}(d^{1/2})$, $1 < d < 24572$. [Ideal class groups of the real quadratic fields $\mathbf{Q}(d^{1/2})$, $1 < d < 24572$] **90e:11167a**

— Groupes des classes d'idéaux des corps quadratiques imaginaires $\mathbf{Q}(d^{1/2})$, $-24572 < d < 0$. [Ideal class groups of the imaginary quadratic fields $\mathbf{Q}(d^{1/2})$, $-24572 < d < 0$] **90e:11167b**

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Schmal, Bernhard Diskriminanten, **Z**-Ganzheitsbasen und relative Ganzheitsbasen bei multiquadratischen Zahlkörpern. [Discriminants, **Z**-integrality bases and relative integrality bases in multiquadratic number fields] **90d:11124**

Shastri, Parvati Witt groups of algebraic integers. **90d:11053**

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Williams, Hugh Cowie *see* **Buchmann, J., 90g:11166** *and* **Mollin, R. A., 90i:11129**

Wright, David J. *see* **Datskovsky, Boris A., 90b:11112**

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11R16 Cubic and quartic extensions

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Fung, Gilbert W. (*with* Williams, Hugh Cowie) On the computation of a table of complex cubic fields with discriminant $D > -10^6$. **90m:11155**

Gaál, István (*with* Schulte, N.) Computing all power integral bases of cubic fields. **90b:11108**

Hayashi, Yoshiki Reelle biquadratische Zahlkörper mit ungerader Klassenzahl. (English summary) [Real biquadratic number fields with odd class number] **90a:11123**

Lan, Yi Zhong On cubic cyclic extensions of number fields. II. (Chinese) **90i:11116**

— Complete determination of cubic cyclic extension fields in number fields. (Chinese) (Not in MR)

— A complete determination of the cubic cyclic extension fields of number fields. **90m:11156**

Lazarus, Andrew J. Letter to the editor: "Duality in nonnormal quartic fields" [Amer. Math. Monthly **94** (1987), no. 3, 279–284; MR 88j:11064; errata; MR 89c:11156] by C. E. van der Ploeg. **90c:11081**

Li, De Lang Defining equations and trace forms of cubic cyclic fields. **90j:11113**

(van der Ploeg, C. E.) *see* **Lazarus, Andrew J., 90c:11081**

Schulte, N. *see* **Gaál, István, 90b:11108**

Williams, Hugh Cowie *see* **Fung, Gilbert W., 90m:11155**

Items with secondary classifications in 11R16

Bergé, A.-M. (*with* Martinet, Jacques) Minorations de hauteurs et petits régulateurs relatifs. [Lower bounds for heights and small relative regulators] **90e:11161**

Bremner, Andrew The equation $xyz = x + y + z = 1$ in integers of a cubic field. **90i:11029**

Buchmann, J. (*with* Pohst, M.; von Schmettow, J.) On the computation of unit groups and class groups of totally real quartic fields. **90e:11192**

Cox, David A. ★ Primes of the form $x^2 + ny^2$. **90m:11016**

Cusick, Thomas W. Units in real cyclic quartic fields. **90m:11166**

Datskovsky, Boris A. (*with* Wright, David J.) Density of discriminants of cubic extensions. **90b:11112**

Gerth, Frank, III The 4-class ranks of quadratic extensions of certain imaginary quadratic fields. **90b:11114**

— The 4-class ranks of quadratic extensions of certain real quadratic fields. **90i:11125**

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Oka, Yoshiro On the modular imbeddings for cyclic cubic fields. **90e:11067**

Paques, A. (*with* Solecki, A.) A contribution on rational cubic Galois extensions. **90g:12005**

Pohst, M. *see* **Buchmann, J.; et al., 90e:11192**

von Schmettow, J. *see* **Buchmann, J.; et al., 90e:11192**

Shastri, Parvati Witt groups of algebraic integers. **90d:11053**

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Tapia-Recillas, H. (*with* Valle Can, J.) Non-Euclidean principal-ideal domains of algebraic integers. (Spanish) **90e:11158**

Valle Can, J. *see* **Tapia-Recillas, H., 90e:11158**

Wright, David J. *see* **Datskovsky, Boris A., 90b:11112**

Yu, Jie Tai On the fundamental units of algebraic function fields. (Chinese) **90k:11143**

11R18 Cyclotomic extensions

Cheng, Lu *see* **Feng, Ke Qin, 90m:11157**

Creutzburg, Reiner (*with* Steidl, Gabriele) Number-theoretic transforms in rings of cyclotomic integers. (German and Russian summaries) **90i:11117**

Dean, Alan *see* **Leahey, William, 90g:11147**

Ernvall, Reijo A generalization of Herbrand's theorem. **90e:11159**

Feng, Ke Qin (*with* Cheng, Lu) On the Minkowski unit in function fields. **90m:11157**

Gold, R. (*with* Kim, Jaemoon) Bases for cyclotomic units. **90h:11101**

Horie, Kuniaki On the class numbers of cyclotomic fields. **90m:11158**

Jaulent, Jean-François Dualité dans les corps surcirculaires. [Duality in supercircular fields] **90g:11146**

Kim, Jaemoon *see* **Gold, R., 90h:11101**

Kurihara, Fumika On the p-adic expansion of units of cyclotomic fields. **90k:11138**

Leahey, William (*with* Dean, Alan) A note on cyclotomic fields. **90g:11147**

Mai, Liem Lower bounds for the ranks of CM types. **90g:11148**

Nakagoshi, Norikata On the unramified extensions of the prime cyclotomic number field and its quadratic extensions. **90m:11159**

Nekovář, Jan Iwasawa's main conjecture (a survey). (Russian and Czech summaries) **90d:11119**

Steidl, Gabriele *see* **Creutzburg, Reiner, 90i:11117**

Washington, Lawrence C. Stickelberger's theorem for cyclotomic fields, in the spirit of Kummer and Thaine. **90m:11160**

Zannier, Umberto On the linear independence of roots of unity over finite extensions of Q. **90j:11114**

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Adachi, Norio (*with* Komatsu, Keiichi) The maximal p-extensions and zeta-functions of algebraic number fields. **90a:11135**

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Cox, David A. ★ Primes of the form $x^2 + ny^2$. **90m:11016**

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Kurtz, Bernd-Günter (*with* Rosenbaum, Kurt) Die irreduziblen Darstellungen der zyklischen Gruppe der Ordnung 2^n über den Zwischenkörpern des 2^n-ten Kreisteilungskörpers. [The irreducible representations of the cyclic group of order 2^n over the intermediate fields of the 2^nth cyclotomic field] (Not in MR)

Kuz'min, L. V. Some remarks on the l-adic regulator. II. **90k:11151**

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Newman, Morris Consecutive units. **90e:11164**

Niizeki, Komajiro Self-similarity of quasilattices in two dimensions. I. The n-gonal quasilattice. **90k:11078**

— Self-similarity of quasilattices in two dimensions. II. The "non-Bravais-type" n-gonal quasilattice. **90k:11079**

Osada, Hiroyuki Note on the class-number of the maximal real subfield of a cyclotomic field. II. **90e:11168**

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11R20 Other abelian and metabelian extensions

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Iwasawa, Kenkichi A note on capitulation problem for number fields. II. **90k:11139**

Lbekkouri, Aboubakr Sur la construction d'un corps de Hilbert. (English summary) [On the construction of a Hilbert field] **90g:11149**
Schertz, Reinhard Konstruktion von Potenzganzheitsbasen in Srahlklassenkörpern über imaginär-quadratischen Zahlkörpern. [Construction of power integral bases in ray class fields over imaginary quadratic number fields] **90g:11150**
Stern, Leonid On the norm groups of global fields. **90k:11140**
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Endô, A. The relative class number of certain imaginary abelian fields. **90m:11169**
Gerth, Frank, III On p-class groups of cyclic extensions of prime degree p of quadratic fields. **90i:11126**
Gras, Georges Non monogénéité d'anneaux d'entiers. [Nonmonogeneity of rings of integers] **90k:11147**
Greither, Cornelius Cyclic Galois extensions and normal bases. **90j:11119**
Khanduja, Sudesh K. Certain quadratic unramified extensions of $F(T, \sqrt{D}(T))$ and theory of genera for quadratic extensions of $F_q(T)$. **90h:11107**
Marszałek, Roman Minkowski units in certain metacyclic fields. **90a:11127**
Odai, Yoshitaka On the group of units of an abelian extension of an algebraic number field. **90b:11111**
Opolka, H. Kummer theory and the l-adic version of Langlands conjecture. **90e:11174**
Osada, Hiroyuki Note on the class-number of the maximal real subfield of a cyclotomic field. II. **90e:11168**
Schmal, Bernhard Diskriminanten, $\mathbf{Z}$-Ganzheitsbasen und relative Ganzheitsbasen bei multiquadratischen Zahlkörpern. [Discriminants, $\mathbf{Z}$-integrality bases and relative integrality bases in multiquadratic number fields] **90d:11124**
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11R21 Other number fields

Shirai, Susumu On the decomposition laws of rational primes in certain class 2 extensions. **90g:11151**

Items with secondary classifications in 11R21

Bergé, A.-M. (*with* Martinet, Jacques; Olivier, M.) The computation of sextic fields with a quadratic subfield. **90k:11169**
Chistov, A. L. The complexity of the construction of the ring of integers of a global field. **90g:11170**
Halter-Koch, Franz Binäre quadratische Formen und Diederkörper. [Binary quadratic forms and dihedral fields] **90g:11046**
Ito, Hideji An elliptic Fermat test. **90g:11169**
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Stern, Leonid On the norm groups of global fields. **90k:11140**

11R23 Infinite algebraic extensions; Iwasawa theory

Childress, Nancy λ-invariants and Γ-transforms. **90m:11161**
Emsalem, Michel Transcendance et $\mathbf{Z}_p$-extensions. [Transcendence and $\mathbf{Z}_p$-extensions] **90a:11125**
— Places totalement décomposées dans des $\mathbf{Z}_p$-extensions d'un corps de nombres. [Totally split places in $\mathbf{Z}_p$-extensions of a number field] **90i:11118**
Gold, R. (*with* Kisilevsky, H.) On geometric $\mathbf{Z}_p$-extensions of function fields. **90e:11160**
— (*with* Kisilevsky, H.) $\mathbf{Z}_p$-extensions of function fields. **90k:11141**
Hemard, Denis Modules galoisiens de torsion et plongements dans les $\mathbf{Z}_p$-extensions. [Torsion Galois modules and embeddings in $\mathbf{Z}_p$-extensions] **90a:11126**
Ichimura, Humio (*with* Sakaguchi, Katsuhiko) The nonvanishing of a certain Kummer character χ_m (after C. Soulé), and some related topics. **90d:11121**
— On the coefficients of the universal power series for Jacobi sums. **90h:11102**
— (*with* Kaneko, Masanobu) On the universal power series for Jacobi sums and the Vandiver conjecture. **90m:11162**
Ihara, Yasutaka (*with* Kaneko, Masanobu; Yukinari, Atsushi) On some properties of the universal power series for Jacobi sums. **90d:11122**
Inatomi, Akira On $\mathbf{Z}_p$-extensions of real abelian fields. **90i:11119**
Jaulent, Jean-François (*with* Nguyễn Quang Đỗ T.) Corps p-rationnels, corps p-réguliers, et ramification restreinte. [p-rational fields, p-regular fields and restricted ramification] **90f:11091**
Kaneko, Masanobu *see* **Ihara, Yasutaka; et al., 90d:11122** *and* **Ichimura, Humio, 90m:11162**
Kersten, Ina On K_2 and $\mathbf{Z}_p$-extensions of $\mathbf{Q}(\zeta^r)$. **90m:11163**
— (*with* Michaliček, Johannes) $\mathbf{Z}_p$-extensions of complex multiplication fields. **90g:11152**
— (*with* Michaliček, Johannes) On Vandiver's conjecture and $\mathbf{Z}_p$-extensions of $\mathbf{Q}(\zeta_{p^n})$. **90m:11164**
Kisilevsky, H. *see* **Gold, R., 90e:11160** *and* **90k:11141**
Kraft, James S. Iwasawa invariants of CM fields. **90k:11142**
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Morishita, Masanori Iwasawa theoretical residue formulas for algebraic tori. **90i:11120**
Nguyễn Quang Đỗ T. *see* **Jaulent, Jean-François, 90f:11091**
Sakaguchi, Katsuhiko *see* **Ichimura, Humio, 90d:11121**
Tilouine, Jacques Théorie d'Iwasawa de l'algèbre de Hecke ordinaire et théorie d'Iwasawa classique. [Iwasawa theory of the ordinary Hecke algebra and classical Iwasawa theory] **90c:11082**
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Ihara, Yasutaka The Galois representation arising from $\mathbf{P}^1 - \{0, 1, \infty\}$ and Tate twists of even degree. **90k:11067**
Iwasawa, Kenkichi A note on capitulation problem for number fields. II. **90k:11139**
Jaulent, Jean-François Dualité dans les corps surcirculaires. [Duality in supercircular fields] **90g:11146**
Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. **90k:11154**
Kozuka, Kazuhito On a p-adic interpolating power series of the generalized Euler numbers. **90j:11020**
Kuz′min, L. V. Some remarks on the l-adic regulator. II. **90k:11151**
Murakami, Hiroshi On decompositions of the Galois groups related with certain $\mathbf{Z}_p$-extensions. **90i:11130**
Nekovář, Jan Iwasawa's main conjecture (a survey). (Russian and Czech summaries) **90d:11119**
Nguyễn Quang Đỗ T. Sur la torsion de certains modules galoisiens. II. [Torsion of certain Galois modules. II] **90e:11171**
Rohrlich, David E. L-functions and division towers. **90a:11066**
Sands, Jonathan W. Kummer's and Iwasawa's version of Leopoldt's conjecture. **90c:11083**
Schneider, Peter The μ-invariant of isogenies. **90g:11077**
Willems, W. Representations of certain group extensions. (*see* **90m:11193**)
Wingberg, Kay A Riemann-Hurwitz formula for the Selmer group of an elliptic curve with complex multiplication. **90b:11061**
— On Demuskin groups with involution. **90j:11121**

11R27 Units and factorization

Bergé, A.-M. (*with* Martinet, Jacques) Minorations de hauteurs et petits régulateurs relatifs. [Lower bounds for heights and small relative regulators] **90e:11161**
Brandl, Rolf One-units in algebraic number fields. **90b:11109**
Buchmann, J. (*with* Pethő, Attila) Computation of independent units in number fields by Dirichlet's method. **90e:11162**
Collins, George E. (*with* Johnson, Jeremy R.) The probability of relative primality of Gaussian integers. **90m:11165**
Cusick, Thomas W. Units in real cyclic quartic fields. **90m:11166**
Frei, Günther On the construction of independent units in cyclic or radical extensions. **90b:11110**
Geroldinger, Alfred Factorizations of algebraic integers. **90i:11121**
Hirabayashi, Mikihito (*with* Yoshino, Ken-ichi) Remarks on unit indices of imaginary abelian number fields. II. **90j:11115**
Johnson, Jeremy R. *see* **Collins, George E., 90m:11165**
Laurent, Michel Rang p-adique d'unités et action de groupes. [p-adic rank of units and group actions] **90i:11122**
Leutbecher, Armin (*with* Niklasch, Gerhard) On cliques of exceptional units and Lenstra's construction of Euclidean fields. **90i:11123**
Marszałek, Roman Minkowski units in certain metacyclic fields. **90a:11127**
Martinet, Jacques *see* **Bergé, A.-M., 90e:11161**
Mawyer, Farley Units in parametrized p-adatropic number fields. **90e:11163**
Narkiewicz, W. Artin's conjecture in algebraic number fields and a related question concerning units. (*see* **90a:11003**)
Newman, Morris Consecutive units. **90e:11164**
Niklasch, Gerhard *see* **Leutbecher, Armin, 90i:11123**
Odai, Yoshitaka On the group of units of an abelian extension of an algebraic number field. **90b:11111**
Paysant-Le Roux, R. Calibre d'un corps global. [Caliber of a global field] **90e:11165**
Pethő, Attila *see* **Buchmann, J., 90e:11162**
Sands, Jonathan W. Kummer's and Iwasawa's version of Leopoldt's conjecture. **90c:11083**
Yoshino, Ken-ichi *see* **Hirabayashi, Mikihito, 90j:11115**
Yu, Jie Tai On the fundamental units of algebraic function fields. (Chinese) **90k:11143**

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Buchmann, J. (*with* Pohst, M.; von Schmettow, J.) On the computation of unit groups and class groups of totally real quartic fields. **90e:11192**
Cheng, Lu *see* **Feng, Ke Qin,** (Not in MR)
Conner, P. E. (*with* Hurrelbrink, J.) ★ Class number parity. **90f:11092**
Dovermann, Karl Heinz (*with* Washington, Lawrence C.) Relations between cyclotomic units and Smith equivalence of representations. **90e:57071**
Feng, Ke Qin (*with* Cheng, Lu) Minkowski units in function fields. (Chinese) (Not in MR)
Gold, R. (*with* Kim, Jaemoon) Bases for cyclotomic units. **90h:11101**
Hurrelbrink, J. *see* **Conner, P. E., 90f:11092**
Inatomi, Akira On $\mathbf{Z}_p$-extensions of real abelian fields. **90i:11119**
Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. **90b:11047**
Kaltofen, Erich (*with* Rolletschek, Heinrich) Computing greatest common divisors and factorizations in quadratic number fields. **90a:11154**
Karpilovsky, Gregory ★ Unit groups of classical rings. **90e:20007**
Katayama, Shin-ichi On unit groups of algebraic number fields. **90e:11172**
Kim, Jaemoon *see* **Gold, R., 90h:11101**
Konno, Shuji On Kronecker's limit formula for certain biquadratic fields. **90a:11136**
Kurihara, Fumika On the p-adic expansion of units of cyclotomic fields. **90k:11138**
Lachaud, Gilles Continued fractions, binary quadratic forms, quadratic fields, and zeta functions. **90j:11032**
Lecacheux, Odile Unités d'une famille de corps cycliques réeles de degré 6 liés à la courbe modulaire $X_1(13)$. (English summary) [Units of a family of real cyclic fields of degree 6 associated with the modular curve $X_1(13)$] **90i:11062**
Niizeki, Komajiro Self-similarity of quasilattices in two dimensions. I. The n-gonal quasilattice. **90k:11078**
— Self-similarity of quasilattices in two dimensions. II. The "non-Bravais-type" n-gonal quasilattice. **90k:11079**
Ozeki, Michio Representation of natural numbers by integral binary quadratic forms. **90m:11050**
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Ramanathan, K. G. Some applications of Kronecker's limit formula. **90j:11112**
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Sasaki, Ryuji Some remarks to Ono's theorem on a generalization of Gauss' genus theory. **90d:11123**

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Washington, Lawrence C. Stickelberger's theorem for cyclotomic fields, in the spirit of Kummer and Thaine. **90m:11160**

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Weinberger, Shmuel *G*-signatures and cyclotomic units. **90g:57029**

Yokoi, Hideo Some relations among new invariants of prime number p congruent to 1 mod 4. **90b:11107**

11R29 Class numbers, class groups, discriminants

Agoh, Takashi A note on unit and class number of real quadratic fields. **90i:11124**

Bergé, A.-M. (*with* Martinet, Jacques) Notions relatives de régulateurs et de hauteurs. [Relative notions for regulators and heights] **90m:11167**

Buchmann, J. (*with* Pohst, M.) On the complexity of computing class groups of algebraic number fields. **90m:11168**

— (*with* Williams, Hugh Cowie) On the computation of the class number of an algebraic number field. **90a:11128**

Conner, P. E. (*with* Hurrelbrink, J.) ★ Class number parity. **90f:11092**

Datskovsky, Boris A. (*with* Wright, David J.) Density of discriminants of cubic extensions. **90b:11112**

Delgado, J. R. Class number and factorization in rings of integers. (Spanish) **90c:11084**

Desnoux, Pierre-Jean Congruences dyadiques entre nombres de classes de corps quadratiques. [2-adic congruences between class numbers of quadratic fields] **90h:11103**

Diaz y Diaz, F. Discriminant minimal et petits discriminants des corps de nombres de degré 7 avec cinq places réelles. (English summary) [Minimal discriminant and small discriminants of number fields of degree 7 with five real places] **90b:11113**

Endô, A. The relative class number of certain imaginary abelian fields. **90m:11169**

Erez, B. (*with* Morales, Jorge F.; Perlis, R.) Sur le genre de la forme trace. [On the genus of the trace form] **90g:11153**

Friedman, Eduardo Some comments on the Cohen-Lenstra conjecture. (Spanish summary) **90e:11166**

Gerth, Frank, III The 4-class ranks of quadratic extensions of certain imaginary quadratic fields. **90b:11114**

— The 4-class ranks of quadratic extensions of certain real quadratic fields. **90i:11125**

— On p-class groups of cyclic extensions of prime degree p of quadratic fields. **90i:11126**

Golubeva, E. P. On the lengths of the periods of a continued fraction expansion of quadratic irrationalities and on the class numbers of real quadratic fields. II. (Russian) **90c:11085**

Gras, Georges Relations congruentielles linéaires entre nombres de classes de corps quadratiques. [Linear congruence relations between class numbers of quadratic fields] **90i:11127**

— (*with* Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] **90i:11128**

Haghighi, Mahmood Computation of conductor for finite extensions with cyclic Galois groups. **90m:11170**

Hoffstein, Jeffrey (*with* Jochnowitz, N.) On Artin's conjecture and the class number of certain CM fields. I, II. **90h:11104**

Hurrelbrink, J. *see* **Conner, P. E., 90f:11092**

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Katayama, Shin-ichi $E(K/k)$ and other arithmetical invariants for finite Galois extensions. **90j:11116**

Kostra, Juraj Remark on the minimum discriminant of normal fields. **90j:11117**

Martinet, Jacques *see* **Bergé, A.-M., 90m:11167**

Miyake, Katsuya Algebraic investigations of Hilbert's Theorem 94, the principal ideal theorem and the capitulation problem. **90k:11144**

Mollin, R. A. (*with* Williams, Hugh Cowie) Period four and real quadratic fields of class number one. **90i:11129**

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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

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Werbiński, Tadeusz An effective version of a theorem of T. Mitsui. **90m:11180**
Wright, David J. Twists of the Iwasawa-Tate zeta function. **90c:11087**
Yamagishi, Masakazu On a conjecture of Gross on special values of L-functions. **90g:11159**
Yoshida, Hiroyuki On a certain distribution on $GL(n)$ and explicit formulas. **90c:11088**
Yû, Wên Ch'ing On the values at nonpositive integers of the Dedekind zeta function of a real quadratic field. **90e:11177**
— On the values at negative half-integers of the Dedekind zeta function of a real quadratic field. **90a:11137**
Zagier, Don The Bloch-Wigner-Ramakrishnan polylogarithm function. **90k:11153**

Items with secondary classifications in 11R42

Chinburg, Ted The analytic theory of multiplicative Galois structure. **90b:11116**
Colmez, Pierre Algébricité de valeurs spéciales de fonctions L. [Algebraicity of special values of L-functions] **90f:11030**
Conner, P. E. (*with* Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. **90a:11130**
Denert, Marleen Zeta functions of arithmetic orders. **90a:11139**
Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. **90f:11040**
— Higher regulators and Hecke L-series of imaginary quadratic fields. I. **90f:11041**
Desnoux, Pierre-Jean Congruences dyadiques entre nombres de classes de corps quadratiques. [2-adic congruences between class numbers of quadratic fields] **90h:11103**
Frey, Gerhard L-series of elliptic curves: results, conjectures and consequences. **90e:11093**
Fujiwara, Yasushi On divisibilities of special values of real analytic Eisenstein series. **90e:11070**
Funakura, Takeo On coefficients of Artin L functions as Dirichlet series. **90m:11131**
Goldfeld, Dorian Explicit formulae as trace formulae. **90h:11045**
Gras, Georges Relations congruentielles linéaires entre nombres de classes de corps quadratiques. [Linear congruence relations between class numbers of quadratic fields] **90i:11127**
Henniart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ-function (following G. Anderson)] **90i:11055**
Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. **90b:11125**
Hoffstein, Jeffrey (*with* Jochnowitz, N.) On Artin's conjecture and the class number of certain CM fields. I, II. **90h:11104**
Ishii, Noburo Quadratic units and congruences between Hilbert modular forms. **90b:11047**
Jannsen, Uwe On the Galois cohomology of l-adic representations attached to varieties over local or global fields. **90c:14010**
Jochnowitz, N. *see* **Hoffstein, Jeffrey, 90h:11104**
Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. **90k:11154**
Konno, Shuji Eisenstein series in hyperbolic 3-space and Kronecker limit formula for biquadratic field. **90d:11064**
Morishita, Masanori Iwasawa theoretical residue formulas for algebraic tori. **90i:11120**
Nekovář, Jan Iwasawa's main conjecture (a survey). (Russian and Czech summaries) **90d:11119**
Neukirch, Jürgen The Beĭlinson conjecture for algebraic number fields. **90f:11042**
Ono, Takashi On some arithmetic properties of certain quadratic fibrations. **90e:11054**
Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L-functions. **90e:11094**
Rohrlich, David E. L-functions and division towers. **90a:11066**
— Nonvanishing of L-functions for GL(2). **90g:11062**
Shahidi, Freydoon Third symmetric power L-functions for GL(2). **90m:11081**
Shirasaka, Shigeshi On a theorem of S. Chowla. **90d:11088**
Snaith, Victor Remarks on group actions and induction theorems. **90h:20009**
Szydło, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] **90m:11181**
Thomason, R. W. Survey of algebraic vs. étale topological K-theory. **90h:14029**
Weselmann, Uwe An elementary identity in the theory of Hecke L-functions. **90f:11031**
Yui, Noriko *see* **Conner, P. E., 90a:11130**

11R44 Distribution of prime ideals [see also 11N05]

Kaczorowski, Jerzy (*with* Staś, Wlodzimierz) On the number of sign changes in the remainder-term of the prime-ideal theorem. **90b:11123**
Staś, Włodzimierz *see* **Kaczorowski, Jerzy, 90b:11123**
Szydło, Bogdan Über Vorzeichenwechsel einiger arithmetischer Funktionen. III. (English summary) [On sign changes of certain arithmetic functions. III] **90m:11181**

11R45 Density theorems

Bhaskaran, M. Some applications of Tchebotarev density theorem. **90d:11127**
Bilhan, Mehpare Tchebotarev's density theorem in global fields. (Turkish summary) **90j:11126**
Wójcik, J. On the congruence $f(x^k) \equiv 0 \bmod q$, where q is a prime and f is a polynomial. **90g:11160**

Items with secondary classifications in 11R45

Fujiwara, Masahiko Counting points in a small box on varieties. **90d:11075**
Gerth, Frank, III The 4-class ranks of quadratic extensions of certain real quadratic fields. **90i:11125**
Greaves, A. (*with* Odoni, R. W. K.) Weil-numbers and CM-fields. I. **90a:11115**
Odoni, R. W. K. On the distribution of norms of ideals in given ray-classes and the theory of central ray-class fields. **90m:11175**
— *see also* **Greaves, A., 90a:11115**
Wright, David J. Distribution of discriminants of abelian extensions. **90b:11115**

11R47 Other analytic theory

Rausch, Ulrich Eine Formel für die Koeffizientensumme von Potenzreihen mit Anwendung auf das Kreis- und Kugelproblem in total reellen algebraischen Zahlkörpern. [A formula for the sum of the coefficients of power series with application to the circle and sphere problem in totally real algebraic number fields] **90a:11138**

Items with secondary classifications in 11R47

Everest, G. R. Some meromorphic functions associated to the S-unit equation. **90h:11030**

Hinz, Jürgen G. Square-free values of cubic polynomials in algebraic number fields. **90g:11131**

Narkiewicz, W. Artin's conjecture in algebraic number fields and a related question concerning units. (*see* **90a:11003**)

Orlov, I. N. Integral laws for the distribution of additive functions, and algebraic number fields. **90c:11053**

11R52 Quaternion and other division algebras: arithmetic, zeta functions

Denert, Marleen Zeta functions of arithmetic orders. **90a:11139**

Hijikata, Hiroaki (*with* Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. **90d:11128**

Körner, Otto Traces of Eichler-Brandt matrices and type numbers of quaternion orders. **90b:11124**

Krieg, Aloys The elementary divisor theory over the Hurwitz order of integral quaternions. **90a:11140**

Pizer, Arnold K. *see* **Hijikata, Hiroaki; et al., 90d:11128**

Shemanske, T. *see* **Hijikata, Hiroaki; et al., 90d:11128**

Items with secondary classifications in 11R52

Estes, Dennis R. (*with* Nipp, Gordon) Factorization in quaternion orders. **90m:11048**

Gross, Benedict H. Local orders, root numbers, and modular curves. **90b:11053**

Katsura, Toshiyuki (*with* Oort, Frans) Supersingular abelian varieties of dimension two or three and class numbers. **90c:14027**

Krieg, Aloys The Hecke-algebras related to the unimodular and modular group over the Hurwitz order of integral quaternions. **90b:11048**

Nipp, Gordon *see* **Estes, Dennis R., 90m:11048**

Oort, Frans *see* **Katsura, Toshiyuki, 90c:14027**

Riehm, Carl R. The quadratic Schur subgroup over local and global fields. **90c:12003**

11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16A18, 16A39]

Brzeziński, Juliusz A combinatorial class number formula. **90j:11127**

— On automorphisms of quaternion orders. **90m:11182**

Denert, Marleen (*with* Van Geel, Jan) Orders in quaternion algebras over global function fields having the cancellation property. **90g:11161**

— Orders, in non-Eichler (R)-algebras over global function fields, having the cancellation property. **90m:11183**

— The genus zeta function of hereditary orders in central simple algebras over global fields. **90e:11178**

Van Geel, Jan *see* **Denert, Marleen, 90g:11161**

Items with secondary classifications in 11R54

Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) **90k:20077**

Denert, Marleen Zeta functions of arithmetic orders. **90a:11139**

— (*with* Van Geel, Jan) Remark on a paper of D. W. Lewis concerning the level of division algebras: "Levels and sublevels of division algebras" [Proc. Roy. Irish Acad. Sect. A **87** (1987), no. 1, 103–106; MR 89f:12003]. **90k:16019**

Le Bruyn, Lieven (*with* Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. **90h:16004**

Leep, David B. (*with* Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. **90i:11038**

(Lewis, D. W.) *see* **Denert, Marleen, 90k:16019**

Nakagawa, Jin Binary forms and orders of algebraic number fields. **90k:11042**

Riehm, Carl R. The linear and quadratic Schur subgroups over the S-integers of a number field. **90a:11146**

Saikia, Promode Kumar Zeta functions of orders in quadratic fields. **90j:11125**

Stevenhagen, Peter Unramified class field theory for orders. **90b:11119**

Tignol, J.-P. *see* **Leep, David B.; et al., 90i:11038**

Van den Bergh, Michel *see* **Le Bruyn, Lieven; et al., 90h:16004**

Van Geel, Jan *see* **Denert, Marleen, 90k:16019**

Van Oystaeyen, F. *see* **Le Bruyn, Lieven; et al., 90h:16004**

Vast, N. *see* **Leep, David B.; et al., 90i:11038**

11R56 Adèle rings and groups

Items with secondary classifications in 11R56

Lan, Yi Zhong On cubic cyclic extensions of number fields. II. (Chinese) **90i:11116**

Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**

Saito, Hiroshi^{1} On a Hasse principle for σ-conjugacy. **90m:22042**

11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Cheng, Lu *see* **Feng, Ke Qin**, (Not in MR)

Feng, Ke Qin (*with* Cheng, Lu) Minkowski units in function fields. (Chinese) (Not in MR)

Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] **90a:11141**

— Some new identities for Bernoulli-Carlitz numbers. **90j:11128**

Gérardin, Paul Le théorème de Riemann-Roch et les corps de nombres algébriques. (English summary) [The Riemann-Roch theorem and algebraic number fields] **90m:11184**

Goss, David Fourier series, measures and divided power series in the theory of function fields. **90i:11138**

Kambayashi, Tatsuji (*with* Takano, Yoshinori) On the arithmetic of quadratic function fields. **90j:11129**

Khanduja, Sudesh K. Certain quadratic unramified extensions of $F(T,\sqrt{D}(T))$ and theory of genera for quadratic extensions of $F_q(T)$. **90h:11107**

Lewittes, Joseph Genus and gaps in function fields. **90d:11129**

van der Linden, F. J. Integer valued polynomials over function fields. **90a:11142**

Takano, Yoshinori *see* **Kambayashi, Tatsuji, 90j:11129**

Zhang, Xian Ke Algebraic function fields of type $(2,2,\cdots,2)$. **90a:11143**

— Determination of algebraic function fields of type $(2,2,\cdots,2)$ with class number one. **90a:11144**

Items with secondary classifications in 11R58

Ando, Kiyoshi *see* **Mizuno, Hirobumi; et al., 90a:94043**

Cheng, Lu *see* **Feng, Ke Qin, 90m:11157**

Denert, Marleen (*with* Van Geel, Jan) Orders in quaternion algebras over global function fields having the cancellation property. **90g:11161**

— (*with* Van Geel, Jan) The class number of hereditary orders in non-Eichler algebras over global function fields. **90d:11126**

— Orders, in non-Eichler (R)-algebras over global function fields, having the cancellation property. **90m:11183**

Drinfel'd, V. G. On my paper: "Cohomology of compactified moduli varieties of F-sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) **162** (1987), Avtomorfn. Funkts. i Teor. Chisel. III, 107–158; MR 89b:11050]. (Russian) **90k:11072**

Dzhuraev, O. Construction of the field of algebraic functions that corresponds to an n-sheeted covering of a sphere. (Russian) **90e:14031**

Feng, Ke Qin (*with* Cheng, Lu) On the Minkowski unit in function fields. **90m:11157**

García, Arnaldo On Weierstrass points on certain elementary abelian extensions of $k(x)$. **90m:14020**

Gold, R. (*with* Kisilevsky, H.) On geometric $\mathbf{Z}_p$-extensions of function fields. **90e:11160**

— (*with* Kisilevsky, H.) $\mathbf{Z}_p$-extensions of function fields. **90k:11141**

Gross, Benedict H. (*with* Rosen, Michael I.) Fourier series and the special values of L-functions. **90k:11150**

Ichijo, Takashi *see* **Mizuno, Hirobumi; et al., 90a:94043**

Ihara, Yasutaka The Galois representation arising from $\mathbf{P}^1-\{0,1,\infty\}$ and Tate twists of even degree. **90k:11067**

Ikeda, Kohei *see* **Mizuno, Hirobumi; et al., 90a:94043**

Kaneko, Masanobu Certain automorphism groups of pro-l fundamental groups of punctured Riemann surfaces. **90j:14019**

Kisilevsky, H. *see* **Gold, R., 90e:11160** *and* **90k:11141**

Matignon, Michel Genre et genre residuel des corps de fonctions valués. [Genus and residual genus of valuated function fields] **90a:11063**

Mizuno, Hirobumi (*with* Ando, Kiyoshi; Ikeda, Kohei; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) **90a:94043**

Rosen, Michael I. *see* **Gross, Benedict H., 90k:11150**

Sherman, Clayton K-theory of discrete valuation rings. **90m:13015**

Van Geel, Jan *see* **Denert, Marleen, 90d:11126** *and* **90g:11161**

Wright, David J. Twists of the Iwasawa-Tate zeta function. **90c:11087**

Yu, Jie Tai On the fundamental units of algebraic function fields. (Chinese) **90k:11143**

Yu, Jing Transcendence and Drinfeld modules: several variables. **90j:11056**

11R65 Class groups and Picard groups of orders

Gustafson, William H. (*with* Roggenkamp, Klaus W.) A Mayer-Vietoris sequence for Picard groups, with applications to integral group rings of dihedral and quaternion groups. **90a:11145**

Riehm, Carl R. The linear and quadratic Schur subgroups over the S-integers of a number field. **90a:11146**

Roggenkamp, Klaus W. *see* **Gustafson, William H., 90a:11145**

11R70 K-theory of global fields [see also 19Fxx]

Browkin, Jerzy Conjectures on the dilogarithm. **90m:11185**

Candiotti, Alan (*with* Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. **90h:11108**

Conner, P. E. (*with* Hurrelbrink, J.) The 4-rank of $K_2(O)$. **90j:11130**

Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. **90b:11125**

Hurrelbrink, J. *see* **Conner, P. E., 90j:11130**

Keune, Frans On the structure of the K_2 of the ring of integers in a number field. **90g:11162**

Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. **90k:11154**

Komatsu, Keiichi K-groups and λ-invariants of algebraic number fields. **90b:11126**

Kramer, Kenneth *see* **Candiotti, Alan, 90h:11108**

Merkur'ev, A. S. Torsion in the group K_2 for fields. **90d:11130**

Items with secondary classifications in 11R70

Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**

Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. **90f:11040**

— Higher regulators and Hecke L-series of imaginary quadratic fields. I. **90f:11041**

Gras, Georges (*with* Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] **90i:11128**

Grayson, Daniel R. On the K-theory of fields. **90c:18010**

Jaulent, Jean-François *see* **Gras, Georges, 90i:11128**

Kato, Kazuya A generalization of class field theory. (Japanese) **90g:11080**

Lichtenbaum, Stephen Groups related to scissors-congruence groups. **90e:20030**

Neukirch, Jürgen The Beĭlinson conjecture for algebraic number fields. **90f:11042**

Zagier, Don The Bloch-Wigner-Ramakrishnan polylogarithm function. **90k:11153**

11R80 Totally real and totally positive fields [see also 12J15]

Skriganov, M. M. Lattices in algebraic number fields and uniform distribution mod 1. (Russian) **90k:11155**

Items with secondary classifications in 11R80

Buchmann, J. (*with* Pohst, M.; von Schmettow, J.) On the computation of unit groups and class groups of totally real quartic fields. **90e:11192**

Cheng, Lu *see* **Feng, Ke Qin, 90m:11157**

Feng, Ke Qin (*with* Cheng, Lu) On the Minkowski unit in function fields. **90m:11157**

Hoffstein, Jeffrey (*with* Jochnowitz, N.) On Artin's conjecture and the class number of certain CM fields. I, II. **90h:11104**

Jochnowitz, N. *see* **Hoffstein, Jeffrey, 90h:11104**

Pohst, M. *see* **Buchmann, J.; et al., 90e:11192**

von Schmettow, J. *see* **Buchmann, J.; et al., 90e:11192**

Yu, Jie Tai On the fundamental units of algebraic function fields. (Chinese) **90k:11143**

11R99 None of the above, but in this section

Items with secondary classifications in 11R99

Grant, David Coates-Wiles towers in dimension two. **90f:11038**

Kongsakorn, Kannika *see* **Laohakosol, Vichian; et al., 90j:34009**

Langevin, M. Solution et histoire d'un problème de Favard. [Solution and history of a problem of Favard] **90g:11141**

Laohakosol, Vichian (*with* Kongsakorn, Kannika; Ubolsri, Patchara) Denominators in the coefficients of power series satisfying linear differential equations. **90j:34009**

Laumon, Gérard Un analogue global du cône nilpotent. [A global analogue of the nilpotent cone] **90a:14012**

Thome, August Existenz von Ganzheitsbasen bei Kummererweiterungen und Komposita. [Existence of integral bases in Kummer extensions and composita] **90d:11120**

Ubolsri, Patchara *see* **Laohakosol, Vichian; et al., 90j:34009**

11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

Lipshitz, L. p-adic zeros of polynomials. **90d:11131**

Zheng, Qiu Cheng The generalized Eisenstein criterion. **90k:11156**

11S10 Units

Pak, G. K. The multiplicative group of principal units of a cyclic 2-extension of a local field. (Russian) **90m:11186**

11S15 Ramification and extension theory

Laubie, F. Extensions de Lie et groupes d'automorphismes de corps locaux. [Lie extensions and groups of automorphisms of local fields] **90e:11179**

— Sur la ramification des groupes de Weil. (English summary) [On the ramification of Weil groups] **90g:11163**

Opolka, H. Ramifications of Weil-representations of local Galois groups. (*see* **90m:11193**)

Travesa i Grau, Artur Generating functions for the numbers of abelian extensions of a local field. **90m:11187**

Items with secondary classifications in 11S15

Gras, Georges (*with* Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] **90i:11128**

Greither, Cornelius Unramified Kummer extensions of prime power degree. **90i:11139**

Jaulent, Jean-François *see* **Gras, Georges, 90i:11128**

Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] **90f:11069**

Nishioka, Kumiko p-adic transcendental numbers. **90e:11099**

Shafarevich, I. R. Factors of decreasing central series. (Russian) **90e:20023**

Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] **90m:20003**

Vostokov, S. V. (*with* Zhukov, I. B.) Abelian semiramified extensions of a two-dimensional local field. (Russian) **90a:11147**

Zhukov, I. B. *see* **Vostokov, S. V., 90a:11147**

11S20 Galois theory

Epkenhans, Martin Trace forms of normal extensions over local fields. **90m:11188**

Greither, Cornelius Unramified Kummer extensions of prime power degree. **90i:11139**

Jacob, Bill (*with* Ware, Roger) A recursive description of the maximal pro-2 Galois group via Witt rings. **90b:11127**

Jarden, Moshe Koch's classification of the primitive representations of a Galois group of a local field. (*see* **90m:11193**)

Mel'nikov, O. V. (*with* Sharomet, A. A.) The Galois group of a multidimensional local field of positive characteristic. (Russian) **90j:11131**

Queyrut, J. Invariants équivariants de la forme trace. [Equivariant invariants of the trace form] **90j:11132**

Sharomet, A. A. *see* **Mel'nikov, O. V., 90j:11131**

Ware, Roger *see* **Jacob, Bill, 90b:11127**

Items with secondary classifications in 11S20

Cohen, Stephen D. Galois groups of trinomials. **90j:11118**

Haran, Dan (*with* Jarden, Moshe) The absolute Galois group of a pseudo p-adically closed field. **90e:12012**

Jarden, Moshe *see* **Haran, Dan, 90e:12012**

Miyake, Katsuya (*with* Opolka, H.) Indices of central embedding problems and applications. **90e:12014**

Opolka, H. *see* **Miyake, Katsuya, 90e:12014**

Wingberg, Kay Galois groups of Poincaré-type over algebraic number fields. **90i:11133**

Zimmermann, Karl Frederic Torsion points of generic formal groups defined over $Z_2[[t_1, \cdots, t_{h-1}]]$. **90m:14039**

11S23 Integral representations

Brinkhuis, J. Trace calculations. (*see* **90m:11193**)

Items with secondary classifications in 11S23

Becker, Eberhard (*with* Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (*see* **90m:11193**)

Everest, G. R. Root numbers—the tame case. (*see* **90m:11193**)

Fröhlich, Albrecht Tame representations and base change. (*see* **90m:11193**)

Külshammer, Burkhard *see* **Becker, Eberhard, (90m:11193)**

Malinin, D. A. Integral representations of p-groups over local fields. (Russian) **90m:20009**

Opolka, H. Ramifications of Weil-representations of local Galois groups. (*see* **90m:11193**)

Queyrut, J. The functional equation ε-factors. (*see* **90m:11193**)

Wingberg, Kay Representations of locally profinite groups. (*see* **90m:11193**)

11S25 Galois cohomology [see also 12Gxx, 16A16]

Items with secondary classifications in 11S25

Andrīĭchuk, V. I. Some problems connected with Tate-Shafarevich pairing in elliptic curves over pseudo-local fields. (Ukrainian. Russian summary) **90j:11048**

Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N. [The Tate-Poitou theorem for function fields of curves defined over N-dimensional local fields] **90m:11095**

Roux, Bernard Sur le groupe de Brauer d'un corps local à corps résiduel imparfait. [On the Brauer group of a local field with nonperfect residue field] **90e:12016**

Simons, Lloyd D. Z_p-towers in Demuškin groups. **90h:20035**

11S31 Class field theory; p-adic formal groups

Kato, Kazuya Swan conductors for characters of degree one in the imperfect residue field case. **90g:11164**

Keating, Kevin Galois characters associated to formal A-modules. **90b:11128**

Laubie, F. Composition de séries formelles et corps de classes. [Composition of formal power series and class fields] **90m:11189**

Li, De Lang Formal groups and local class field theory. **90j:11133**

Mokrinskaya, R. P. A remark on a theorem of Lang. (Russian) (*see* **90h:20005**)

Morava, Jack Browder-Fröhlich symbols. **90m:11190**

Rosen, Michael I. (*with* Zimmermann, Karl Frederic) Galois representations associated to generic formal groups. **90m:11191**

Vostokov, S. V. (*with* Zhukov, I. B.) Abelian semiramified extensions of a two-dimensional local field. (Russian) **90a:11147**

Zhukov, I. B. *see* **Vostokov, S. V., 90a:11147**

Zimmermann, Karl Frederic *see* **Rosen, Michael I., 90m:11191**

Items with secondary classifications in 11S31

Abrashkin, V. A. Finite group schemes of period p over a discrete valuation ring. **90j:14057**

Ditters, E. J. (*with* Hoving, Simen J.) On the connected part of the covariant Tate p-divisible group and the ζ-function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. **90e:14047**

— On the classification of commutative formal group laws over p-Hilbert domains and a finiteness theorem for higher Hasse-Witt matrices. **90h:14062**

Fishman, V. M. On the structure of the Tate module. **90k:11073**

Hoving, Simen J. *see* **Ditters, E. J., 90e:14047**

Hyodo, Osamu On variation of Hodge-Tate structures. **90i:14019**

Jarden, Moshe Koch's classification of the primitive representations of a Galois group of a local field. (*see* **90m:11193**)

Kato, Kazuya A generalization of class field theory. (Japanese) **90g:11080**

Keating, Kevin Lifting endomorphisms of formal A-modules. **90e:14048**

Lorenz, Martin On the numerical local Langlands conjecture. (*see* **90m:11193**)

Morava, Jack Forms of K-theory. **90e:55011**

Ota, Kaori On P-integrality of a formal group obtained from a hypergeometric function. **90f:14030**

Rosen, Michael I. (*with* Zimmermann, Karl Frederic) Torsion points of generic formal groups. **90d:14047**

Saito, Shuji Class field theory for two-dimensional local rings. **90h:11053**

Sen, Shankar The analytic variation of p-adic Hodge structure. **90b:11062**

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— Torsion points of generic formal groups defined over $\mathbf{Z}_2[[t_1,\cdots,t_{h-1}]]$. **90m:14039**
— *see also* **Rosen, Michael I., 90d:14047**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Fröhlich, Albrecht Tame representations and base change. (*see* **90m:11193**)
Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Degree two monomial representations of local Weil groups. **90m:11192b**
— (*with* Li, Wen-Ch'ing Winnie) Identities on quadratic Gauss sums. **90m:11192a**
Henniart, Guy La conjecture de Langlands locale numérique pour GL(n). (English summary) [The numerical local Langlands conjecture for GL(n)] **90f:11094**
— Preuve de la conjecture de Langlands locale numérique pour GL(n). [Proof of the numerical local Langlands conjecture GL(n)] (*see* **90m:11193**)
Li, Wen-Ch'ing Winnie *see* **Gérardin, Paul, 90m:11192a** *and* **90m:11192b**
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(Ritter, Jürgen) *see* **Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193**

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Conference:
  Representation Theory and Number Theory in Connection with the Local Langlands Conjecture ★ Representation theory and number theory in connection with the local Langlands conjecture. **90m:11193**
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Becker, Eberhard (*with* Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (*see* **90m:11193**)
Bushnell, C. J. Gauss sums and supercuspidal representations of GL$_n$. (*see* **90m:11193**)
Corwin, Lawrence Characters of representations of D_n^* (tamely ramified case). (*see* **90m:11193**)
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Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (*see* **90m:11193**)
Külshammer, Burkhard *see* **Becker, Eberhard**, (**90m:11193**)
Kutzko, Phil (*with* Manderscheid, David) On intertwining operators for GL$_N(F)$, F a non-Archimedean local field. **90c:22054**
Li, Wen-Ch'ing Winnie *see* **Gérardin, Paul**, (**90m:11193**)
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Opolka, H. Ramifications of Weil-representations of local Galois groups. (*see* **90m:11193**)
Queyrut, J. The functional equation ε-factors. (*see* **90m:11193**)
Rohlfs, Jürgen Sequences of Eisenstein polynomials and arithmetic in local division algebras. (*see* **90m:11193**)
Tadić, M. Geometry of dual spaces of reductive groups (non-Archimedean case). **90c:22057**
Taylor, Martin J. Root numbers and the local Langlands conjecture. (*see* **90m:11193**)
Teitelbaum, Jeremy On Drinfel'd's universal formal group over the p-adic upper half plane. **90j:11050**
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Watanabe, Takao Euler factors attached to unramified principal series representations. **90c:22058**
Zink, Ernst-Wilhelm U^1-conjugacy classes in local division algebras. II. **90k:11158**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Gérardin, Paul (*with* Li, Wen-Ch'ing Winnie) Identities on degree two gamma factors. (*see* **90m:11193**)
Kim, Hyun Kwang Unit theorems on algebraic tori. **90f:11095**
Li, Wen-Ch'ing Winnie *see* **Gérardin, Paul**, (**90m:11193**)
Loeser, F. Fonctions zêta locales d'Igusa à plusieurs variables, intégration dans les fibres, et discriminants. [Igusa's local zeta functions in several variables, integration in fibers, and discriminants] **90m:11194**
Queyrut, J. The functional equation ε-factors. (*see* **90m:11193**)
Satoh, Junya q-analogue of Riemann's ζ-function and q-Euler numbers. **90d:11132**
Shiratani, Katsumi On generalized periods of cusp forms. **90b:11129**
Taylor, Martin J. Root numbers and the local Langlands conjecture. (*see* **90m:11193**)
Yager, Rodney I. Special values of L-functions and height two formal groups. **90f:11096**

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Brinkhuis, J. Trace calculations. (*see* **90m:11193**)
Bushnell, C. J. Gauss sums and supercuspidal representations of GL$_n$. (*see* **90m:11193**)
Conner, P. E. (*with* Yui, Noriko) The additive characters of the Witt ring of an algebraic number field. **90a:11130**
Corwin, Lawrence The unitary dual for the multiplicative group of arbitrary division algebras over local fields. **90d:22021**
Gekeler, Ernst-Ulrich Méthodes analytiques rigides dans la théorie arithmétique des corps de fonctions. [Rigid analytic methods in the arithmetic theory of function fields] **90a:11141**
Goss, David Fourier series, measures and divided power series in the theory of function fields. **90i:11138**
Gross, Benedict H. Local orders, root numbers, and modular curves. **90b:11053**
Hironaka, Yumiko (*with* Satō, Fumihiro) Spherical functions and local densities of alternating forms. **90c:11029**
Murase, Atsushi L-functions attached to Jacobi forms of degree n. I. The basic identity. **90k:11064**
Nohmi, Masaya On a convolution on the space of p-adic functions. **90k:11159**
Satō, Fumihiro *see* **Hironaka, Yumiko, 90c:11029**
Travesa i Grau, Artur Generating functions for the numbers of abelian extensions of a local field. **90m:11187**
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11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16A18, 16A39]

Becker, Eberhard (*with* Külshammer, Burkhard) The irreducible representations of the multiplicative group of a tame division algebra over a local field (following H. Koch and E.-W. Zink). (*see* **90m:11193**)
Everest, G. R. Root numbers—the tame case. (*see* **90m:11193**)
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Corwin, Lawrence Characters of representations of D_n^* (tamely ramified case). (*see* **90m:11193**)
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Hijikata, Hiroaki (*with* Pizer, Arnold K.; Shemanske, T.) Orders in quaternion algebras. **90d:11128**
Leep, David B. (*with* Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. **90i:11038**
Lorenz, Martin On the numerical local Langlands conjecture. (*see* **90m:11193**)
Morandi, Pat Value functions on central simple algebras. **90e:16007**
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Queyrut, J. The functional equation ε-factors. (*see* **90m:11193**)
Riehm, Carl R. The quadratic Schur subgroup over local and global fields. **90c:12003**
Sally, P. J., Jr. Matching and formal degrees for division algebras and GL over a p-adic field. (*see* **90m:11193**)
Shemanske, T. *see* **Hijikata, Hiroaki; et al., 90d:11128**
Tignol, J.-P. *see* **Leep, David B.; et al., 90i:11038**
Vast, N. *see* **Leep, David B.; et al., 90i:11038**
Willems, W. Representations of certain group extensions. (*see* **90m:11193**)

11S70 K-theory of local fields

Fesenko, I. B. A generalized symbol in multidimensional local fields. (Russian) **90d:11133**
— K-groups of a multidimensional local field. **90c:11089**

Items with secondary classifications in 11S70

Saito, Shuji Class field theory for two-dimensional local rings. **90h:11053**

11S75 Valuation theory

Items with secondary classifications in 11S75

Hänler, M. *see* **Steidl, Gabriele; et al., 90m:11154**
Steidl, Gabriele (*with* Hänler, M.; Tasche, Manfred) On a number-theoretic result of Zsigmondy in domains of quadratic integers. **90m:11154**
Tasche, Manfred *see* **Steidl, Gabriele; et al., 90m:11154**

11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Igusa, Jun-ichi b-functions and p-adic integrals. **90i:11140**
Kimura, Tatsuo Complex powers on p-adic fields and a resolution of singularities. **90f:11097**
Nohmi, Masaya On a convolution on the space of p-adic functions. **90k:11159**
Srinivasan, V. K. Some open problems in p-adic analysis. **90b:11130**

Items with secondary classifications in 11S80

Chekhov, L. O. A note on multiloop calculus in p-adic string theory. **90h:81140**
Childress, Nancy λ-invariants and Γ-transforms. **90m:11161**
Denef, J. Multiplicity of the poles of the Poincaré series of a p-adic subanalytic set. **90f:11089**
Dibag, I. Generalization of the von Staudt-Clausen theorem. **90g:11025**
Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] **90i:32024**
Hloušek, Zvonimir (*with* Spector, Donald) p-adic string theories. **90h:81160**
Ihara, Yasutaka (*with* Kaneko, Masanobu; Yukinari, Atsushi) On some properties of the universal power series for Jacobi sums. **90d:11122**
Kaneko, Masanobu *see* **Ihara, Yasutaka; et al., 90d:11122**
Kozuka, Kazuhito On two variable p-adic L-functions and a p-adic class number formula. **90g:11158**
— On a p-adic interpolating power series of the generalized Euler numbers. **90j:11020**
Morita, Yasuo A p-adic theory of hyperfunctions. II. **90g:32012**
van der Put, M. Uniformisation p-adique. [p-adic uniformization] **90e:11090**

Ruelle, Ph. (*with* Thiran, E.; Verstegen, D.; Weyers, J.) Quantum mechanics on p-adic fields. **90k:81241**
Spector, Donald *see* **Hloušek, Zvonimir, 90h:81160**
Thiran, E. *see* **Ruelle, Ph.; et al., 90k:81241**
Verstegen, D. *see* **Ruelle, Ph.; et al., 90k:81241**
Vladimirov, V. S. (*with* Volovich, I. V.) p-adic quantum mechanics. **90h:81049**
Volovich, I. V. *see* **Vladimirov, V. S., 90h:81049**
Weyers, J. *see* **Ruelle, Ph.; et al., 90k:81241**
Wilson, S. M. J. Principal orders and congruence Gauss sums. (*see* **90m:11193**)
Yeung, Kit Ming On congruences for binomial coefficients. **90i:11143**
Yukinari, Atsushi *see* **Ihara, Yasutaka; et al., 90d:11122**

11S85 Other nonanalytic theory

Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**
Sushchanskiĭ, V. I. Standard subgroups of the isometry group of the metric space of p-adic integers. (Ukrainian. Russian summary) **90k:11160**

Items with secondary classifications in 11S85

Colagrossi, Attilio (*with* Limongelli, Carla) Big numbers p-adic arithmetic: a parallel approach. **90f:11101**
Limongelli, Carla *see* **Colagrossi, Attilio, 90f:11101**

11S99 None of the above, but in this section

Items with secondary classifications in 11S99

Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) **90c:14011**
Kahn, Bruno Sommes de Gauss attachées aux caractères quadratiques de petit conducteur. [Gauss sums attached to quadratic characters of small conductor] **90f:11069**
Roy, Damien Sous-groupes minimaux de $\mathbf{R}^n$. (English summary) [Minimal subgroups of $\mathbf{R}^n$] **90a:11084**

11Txx Finite fields and commutative rings (number-theoretic aspects)

11T06 Polynomials: irreducibility, factorization, distribution of values

Albis González, Víctor Samuel On a theorem of Möbius: elementary variations on the polynomial tonality. **90e:11180**
Beard, Jacob T. B., Jr. Bi-unitary perfect polynomials over GF(g). **90c:11090**
Brawley, J. V. (*with* Carlitz, L.) A test for additive decomposability of irreducibles over a finite field. **90g:11165**
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Chou, Wun-Seng (*with* Gomez-Calderon, Javier; Mullen, Gary L.) Value sets of Dickson polynomials over finite fields. **90e:11181**
Creutzburg, Reiner (*with* Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. **90e:11182**
Dejter, I. J. (*with* Rubio, Ivelisse) Monomial permutations with uniform cycle decomposition. **90m:11196**
Eigenthaler, G. (*with* Nöbauer, Wilfried; Wiesenbauer, J.) Über Halbgruppen vertauschbarer Polynome. [On semigroups of commuting polynomials] **90b:11131**
Fitzgerald, Robert W. (*with* Yucas, Joseph) On generating linear spans over GF(p). **90d:11134**
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— *see also* **Chou, Wun-Seng; et al., 90e:11181**
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Lüneburg, Heinz On the number of irreducible factors of degree k dividing a given polynomial over GF(q). **90j:11134**
Matthews, Rex (*with* Lidl, R.) On generalized Redei functions. **90b:11132**
Moreno, Oscar On the existence of a primitive quadratic of trace 1 over GF(p^m). **90b:11133**
Mullen, Gary L. *see* **Chou, Wun-Seng; et al., 90e:11181**
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Nöbauer, Wilfried *see* **Eigenthaler, G.; et al., 90b:11131**
van Oorschot, P. C. (*with* Vanstone, S. A.) A geometric approach to root finding in GF(q^m). **90e:11184**
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Shoup, Victor New algorithms for finding irreducible polynomials over finite fields. **90j:11135**
Sobirov, M. S. On the expandability of the polynomial $x^p-(x-1)^p-1$ (mod p). (Russian) **90j:11136**
Tasche, Manfred *see* **Creutzburg, Reiner, 90e:11182**
Thiong Ly, J.-A. A deterministic algorithm for factorizing polynomials over extensions GF(p^m) of GF(p), p a small prime. **90j:11137**
Vanstone, S. A. *see* **van Oorschot, P. C., 90e:11184**
Voloch, J. F. On the number of values taken by a polynomial over a finite field. **90j:11138**
Wan, Da Qing An elementary proof of a theorem of Katz. **90a:11148**
— Factoring multivariate polynomials over large finite fields. **90i:11141**
— Permutation polynomials and resolution of singularities over finite fields. **90m:11197**
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Items with secondary classifications in 11T06

Aggarwal, M. L. *see* **Shil, R. N., 90i:62100**
Ash, David W. (*with* Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. **90m:12006**
Bertaut, Erwin-Félix L'indicateur d'Euler et les opérations de symétrie cristallographiques transitives dans les hyperespaces E^n. (English summary) [Euler's indicatrix and crystallographic transitive symmetry operations in the hyperspaces E^n] **90f:20068a**
— Erratum: "Euler's indicatrix and crystallographic transitive symmetry operations in the hyperspaces E^n". (French) **90f:20068b**
Blake, Ian F. *see* **Ash, David W.; et al., 90m:12006**
Brawley, J. V. (*with* Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. **90i:12004**
Cantor, David G. On arithmetical algorithms over finite fields. **90f:11100**
Evans, Ronald Residuacity of primes. **90m:11008**
Fich, Faith E. (*with* Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. **90c:12001**
Nöbauer, Rupert Rédei-Funktionen und das Schursche Problem. [Rédei functions and the Schur problem] **90a:11151**
Schnibben, George E. *see* **Brawley, J. V., 90i:12004**
Shil, R. N. (*with* Aggarwal, M. L.) Evaluation of $1+x^i$ as power of x in Galois field. **90i:62100**
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Vanstone, S. A. *see* **Ash, David W.; et al., 90m:12006**
Wolfmann, J. The number of points on certain algebraic curves over finite fields. **90k:11030**

11T15 Difference sets; finite geometries

Moreno, Oscar (*with* Sotero, José) Computational approach to conjecture A of Golomb. **90m:11198**
Sotero, José *see* **Moreno, Oscar, 90m:11198**

Items with secondary classifications in 11T15

Ho, Chat Y. (*with* Pott, Alexander) Multiplier groups of planar difference sets and a theorem of Kantor. **90k:05036**
Pott, Alexander *see* **Ho, Chat Y., 90k:05036**
Yamada, Mieko On a relation between a cyclic relative difference set associated with the quadratic extensions of a finite field and the Szekeres difference sets. **90a:05036**

11T21 Cyclotomy, exponential sums; Gaussian and character sums

Adolphson, Alan (*with* Sperber, Steven) On the degree of the L-function associated with an exponential sum. **90b:11134**
Han, Wen Bao Polynomials and primitive roots over finite fields. (Chinese) **90i:11142**
Katre, S. A. Cyclotomic numbers and a conjecture of Snapper. **90e:11185**
Lamprecht, E. Calculation of general Gauss sums and quadratic Gauss sums in finite rings. **90k:11162**
Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] **90h:11110**
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Yeung, Kit Ming On congruences for binomial coefficients. **90i:11143**

Items with secondary classifications in 11T21

Adolphson, Alan On the distribution of angles of Kloosterman sums. **90k:11109**
Bergeron, F. A story about computing with roots of unity. **90i:17001**
Chalk, John H. H. Quelques remarques sur les congruences polynômes modulo p^α. (English summary) [Some remarks on polynomial congruences modulo p^α] **90a:11101**
Evans, Ronald (*with* Root, William A.) Conjectures for Selberg character sums. **90e:11120**
Jungnickel, Dieter (*with* Vanstone, S. A.) On primitive polynomials over finite fields. **90k:11164**
Katz, Nicholas M. (*with* Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) **90i:14022**
— An estimate for character sums. **90b:11081**
Lachaud, Gilles Distribution of the weights of the dual of the Melas code. **90m:94044**
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McGehee, O. Carruth Gaussian sums and harmonic analysis on finite fields. **90k:43012**
Niemi, Valtteri One-way functions. (Finnish. English summary) **90i:68032**
Root, William A. *see* **Evans, Ronald, 90e:11120**
Tietäväinen, Aimo A. Codes and character sums. **90j:94002**
Vanstone, S. A. *see* **Jungnickel, Dieter, 90k:11164**
Wang, Yuan^1 On small zeros of quadratic forms over finite fields. **90c:11022**
Wolfmann, J. The weights of the orthogonals of certain cyclic codes or extended GOPPA codes. **90e:11188**
Zannier, Umberto On the linear independence of roots of unity over finite extensions of Q. **90j:11114**

11T30 Structure theory

Jungnickel, Dieter (*with* Vanstone, S. A.) On primitive polynomials over finite fields. **90k:11164**
— (*with* Menezes, Alfred J.; Vanstone, S. A.) On the number of self-dual bases of GF(q^m) over GF(q). **90i:11144**
Menezes, Alfred J. *see* **Jungnickel, Dieter; et al., 90i:11144**
Mullin, R. C. (*with* Onyszchuk, I. M.; Vanstone, S. A.; Wilson, Richard M.) Optimal normal bases in GF(p^n). **90c:11092**

Onyszchuk, I. M. *see* **Mullin, R. C.; et al., 90c:11092**

Pincin, Antonio Bases for finite fields and a canonical decomposition for a normal basis generator. **90d:11135**

— A new algorithm for multiplication in finite fields. **90e:11187**

Vanstone, S. A. *see* **Mullin, R. C.; et al., 90c:11092; Jungnickel, Dieter; et al., 90i:11144** *and* **90k:11164**

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Ash, David W. (*with* Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. **90m:12006**

Blake, Ian F. *see* **Ash, David W.; et al., 90m:12006**

MacHale, Desmond Wedderburn's theorem revisited (again). **90e:12010**

Masol, V. I. Some applications of algorithms for constructing subspaces over a finite field. **90k:05015**

Shparlinskiĭ, I. E. *see* **Stepanov, S. A., 90j:12003**

Stepanov, S. A. (*with* Shparlinskiĭ, I. E.) On the construction of a primitive normal basis of a finite field. (Russian) **90j:12003**

Sun, Qi On primitive roots in a finite field. (Chinese. English summary) **90e:11186**

Vanstone, S. A. *see* **Ash, David W.; et al., 90m:12006**

11T35 Matrices and determinants

Items with secondary classifications in 11T35

Rabin, Michael O. (*with* Vazirani, Vijay V.) Maximum matchings in general graphs through randomization. **90k:05114**

Vazirani, Vijay V. *see* **Rabin, Michael O., 90k:05114**

11T41 Equations

Gao, Wei Dong On the Golomb conjecture. (Chinese. English summary) **90j:11139**

Sun, Qi The diagonal equation over a finite field F_p. (Chinese. English summary) **90i:11145**

11T55 Polynomial domains over finite fields

Knopfmacher, Arnold (*with* Knopfmacher, John) The exact length of the Euclidean algorithm in $F_q[X]$. **90d:11136**

Knopfmacher, John *see* **Knopfmacher, Arnold, 90d:11136**

Items with secondary classifications in 11T55

Niederreiter, H. On a problem of Kodama concerning the Hasse-Witt matrix and the distribution of residues. **90a:11007**

11T71 Algebraic coding theory; cryptography

Buchmann, J. (*with* Williams, Hugh Cowie) A key-exchange system based on imaginary quadratic fields. **90g:11166**

Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Algebraic complexities and algebraic curves over finite fields. **90g:11167**

Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90g:11167**

Gashkov, I. B. (*with* Sidel′nikov, V. M.) Codes that are connected with a group of linear-fractional transformations. **90d:11137**

Katsman, G. L. (*with* Tsfasman, M. A.) Spectra of algebro-geometric codes. (Russian) **90a:11149**

Koblitz, Neal Hyperelliptic cryptosystems. **90k:11165**

Lord, Eric A. Geometry of the Mathieu groups and Golay codes. **90g:11168**

Quebbemann, Heinz-Georg Cyclotomic Goppa codes. **90b:11135**

Scharlau, Winfried Selbstduale Goppa-Codes. [Self-dual Goppa codes] **90i:11146**

Shiozaki, Akira Decoding of redundant residue polynomial codes using Euclid's algorithm. **90b:11136**

Shokrollahi, Mohammad Amin Codes on Hermitian curves. **90b:11137**

Sidel′nikov, V. M. *see* **Gashkov, I. B., 90d:11137**

Stichtenoth, Henning Self-dual Goppa codes. **90a:11150**

Sun, Qi (*with* Xiao, Rong) Two kinds of elliptic curves over F_q used to set up cryptosystems. (Chinese. English summary) **90m:11199**

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Williams, Hugh Cowie *see* **Buchmann, J., 90g:11166**

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— New bounds on cyclic codes from algebraic curves. **90j:11140**

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11Uxx Connections with logic

11U05 Decidability [see also 03B25]

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11U09 Model theory

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Denef, J. Multiplicity of the poles of the Poincaré series of a p-adic subanalytic set. **90f:11089**

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11U10 Nonstandard arithmetic [see also 03H15]

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11Yxx Computational number theory [see also 11–04]

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11Y05 Factorization

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Barozzi, Giulio Cesare Highly composite numbers. (Italian) **90h:11005**

Brillhart, John (*with* Lehmer, D. H.; Selfridge, J. L.; Tuckerman, Bryant; Wagstaff, S. S., Jr.) ★ Factorizations of $b^n \pm 1$. **90d:11009**

Langemyr, Lars (*with* McCallum, Scott) The computation of polynomial greatest common divisors over an algebraic number field. **90k:12001**

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Zarantonello, Sergio E. *see* **Parady, B. K.; et al., 90j:11013**

11Y16 Algorithms; complexity

Bailey, D. H. (*with* Ferguson, Helaman R. P.) Numerical results on relations between fundamental constants using a new algorithm. **90e:11191**

Bradford, R. J. (*with* Davenport, J. H.) Effective tests for cyclotomic polynomials. **90m:11201**

Cantor, David G. On arithmetical algorithms over finite fields. **90f:11100**

Chistov, A. L. The complexity of the construction of the ring of integers of a global field. **90g:11170**

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Itoh, Toshiya (*with* Tsujii, Shigeo) An efficient algorithm for deciding quadratic residuosity in finite fields GF(p^m). **90b:11142**

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— La réduction des réseaux. Autour de l'algorithme de Lenstra, Lenstra, Lovász. (English summary) [Lattice reduction: the Lenstra-Lenstra-Lovász algorithm] **90i:11149**
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Char, Bruce W. (*with* Geddes, K. O.; Gonnet, Gaston H.) GCDHEU: heuristic polynomical GCD algorithm based on integer GCD computation. **90g:68073**
Davida, George I. *see* **Litow, Bruce E.**, (**90f:68010**)
Delmer, Francine (*with* Deshouillers, Jean-Marc) On the computation of $g(k)$ in Waring's problem. **90i:11109**
Deshouillers, Jean-Marc *see* **Delmer, Francine, 90i:11109**
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Evans, David J. (*with* Stojmenović, Ivan) On parallel computation of Voronoi diagrams. (Not in MR)
Fich, Faith E. (*with* Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. **90c:12001**
Geddes, K. O. *see* **Char, Bruce W.; et al., 90g:68073**
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Hsueh, C. T. (*with* Wang, Ching Fa; Li, Chao Yen) Solving linear systems of determinant frequently zero over finite field GF(2). **90d:65086**
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Juozapavičius, Algimantas Symbolic computation for Witt rings. **90m:11056**
Just, Bettina Integer relations among algebraic numbers. **90m:11109**
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Karloff, Howard J. (*with* Ruzzo, Walter L.) The iterated mod problem. **90f:68062**
Knopfmacher, Arnold (*with* Knopfmacher, John) A binomial product representation for p-adic numbers. **90e:11097**
— (*with* Knopfmacher, John) p-adic and non-Archimedean product representations. **90e:11098**
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Lagarias, J. C. *see* **Håstad, J.; et al., 90g:11171**
Lankford, Dallas Nonnegative integer basis algorithms for linear equations with integer coefficients. **90c:68039**
Li, Chao Yen *see* **Hsueh, C. T.; et al., 90d:65086**
Lickteig, Thomas A lower bound on the complexity of division in finite extension fields and inversion in quadratic alternative algebras. **90b:68040**
Litow, Bruce E. (*with* Davida, George I.) $O(\log(n))$ parallel time finite field inversion. (*see* **90f:68010**)
Lu, Chao *see* **Tolimieri, Richard; et al., 90e:65199**
Moreno, Oscar (*with* Sotero, José) Computational approach to conjecture A of Golomb. **90m:11198**
Pincin, Antonio A new algorithm for multiplication in finite fields. **90e:11187**
Pintz, J. (*with* Steiger, W. L.; Szemerédi, Endre) Infinite sets of primes with fast primality tests and quick generation of large primes. **90b:11141**
Rabin, Michael O. (*with* Vazirani, Vijay V.) Maximum matchings in general graphs through randomization. **90k:05114**
Rolletschek, Heinrich *see* **Kaltofen, Erich, 90a:11154**
Rónyai, Lajos Algorithms in algebra. (Hungarian) **90e:12005**
Ruzzo, Walter L. *see* **Karloff, Howard J., 90f:68062**
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11Y35 Analytic computations

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Williams, Hugh Cowie *see* **Stephens, A. J.**, (**90m:11003**)

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Fung, Gilbert W. (*with* Williams, Hugh Cowie) Quadratic polynomials which have a high density of prime values. **90j:11090**
Ishikawa, Hirofumi The distribution of the Hilbert modular type cusp forms of weight two and its statistical model. **90e:11066**
Leng, Jing *see* **Wang, Yi Qun, 90g:11119**
Varga, Richard S. Scientific computation on some mathematical conjectures. **90k:00049**
Wang, Yi Qun (*with* Leng, Jing) Plana's summation formula and the numerical calculatio of the Riemann zeta function $\zeta(2k+1)$. (Chinese. English summary) **90g:11119**
Williams, Hugh Cowie *see* **Fung, Gilbert W., 90j:11090**

11Y40 Algebraic number theory computations

Bergé, A.-M. (*with* Martinet, Jacques; Olivier, M.) The computation of sextic fields with a quadratic subfield. **90k:11169**
Buchmann, J. (*with* Pohst, M.; von Schmettow, J.) On the computation of unit groups and class groups of totally real quartic fields. **90e:11192**
— (*with* Sands, Jonathan W.; Williams, Hugh Cowie) p-adic computation of real quadratic class numbers. **90h:11112**
Creutzburg, Reiner (*with* Tasche, Manfred) Number-theoretic transforms of prescribed length. (*see* **90i:68007**)
Ford, David J. (*with* McKay, John) Computation of Galois groups from polynomials over the rationals. **90h:11113**
Geddes, K. O. (*with* Gonnet, Gaston H.; Smedley, Trevor J.) Heuristic methods for operations with algebraic numbers (extended abstract). (*see* **90i:00005**)
Gonnet, Gaston H. *see* **Geddes, K. O.; et al.**, (**90i:00005**)
Kaltofen, Erich (*with* Rolletschek, Heinrich) Computing greatest common divisors and factorizations in quadratic number fields. **90a:11154**
Martinet, Jacques *see* **Bergé, A.-M.; et al., 90k:11169**
McKay, John *see* **Ford, David J., 90h:11113**
Olivier, M. *see* **Bergé, A.-M.; et al., 90k:11169**
Pohst, M. *see* **Buchmann, J.; et al., 90e:11192**
Rolletschek, Heinrich *see* **Kaltofen, Erich, 90a:11154**
Sands, Jonathan W. *see* **Buchmann, J.; et al., 90h:11112**
von Schmettow, J. *see* **Buchmann, J.; et al., 90e:11192**
Smedley, Trevor J. *see* **Geddes, K. O.; et al.**, (**90i:00005**)
Sun, Qi Some results in the application of the number theory to digital signal processing ar public-key systems. **90e:11193**
Tasche, Manfred *see* **Creutzburg, Reiner**, (**90i:68007**)
Williams, Hugh Cowie *see* **Buchmann, J.; et al., 90h:11112**

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Bradford, R. J. (*with* Davenport, J. H.) Effective tests for cyclotomic polynomials. **90m:11201**
Buchmann, J. (*with* Pohst, M.) On the complexity of computing class groups of algebraic number fields. **90m:11168**
— (*with* Williams, Hugh Cowie) On the computation of the class number of an algebraic number field. **90a:11128**
— (*with* Pethő, Attila) Computation of independent units in number fields by Dirichlet's method. **90e:11162**
Chistov, A. L. The complexity of the construction of the ring of integers of a global field. **90g:11170**
Collins, George E. (*with* Johnson, Jeremy R.) The probability of relative primality of Gaussian integers. **90m:11165**
Creutzburg, Reiner (*with* Steidl, Gabriele) Number-theoretic transforms in rings of cyclotomic integers. (German and Russian summaries) **90i:11117**
— (*with* Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. **90e:11182**
Davenport, J. H. *see* **Bradford, R. J., 90m:11201**
Dür, Arne On computing the canonical form for a binary form of odd degree. **90i:11042**
Friedman, Eduardo Some comments on the Cohen-Lenstra conjecture. (Spanish summary **90e:11166**
Fung, Gilbert W. (*with* Williams, Hugh Cowie) On the computation of a table of complex cubic fields with discriminant $D > -10^6$. **90m:11155**
Gaál, István (*with* Schulte, N.) Computing all power integral bases of cubic fields. **90b:11108**
Johnson, Jeremy R. *see* **Collins, George E., 90m:11165**
Just, Bettina Integer relations among algebraic numbers. **90e:11154**
Koblitz, Neal Hyperelliptic cryptosystems. **90k:11165**
Leutbecher, Armin (*with* Niklasch, Gerhard) On cliques of exceptional units and Lenstra' construction of Euclidean fields. **90i:11123**

Müller, Hans Helmut (*with* Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. **90m:11086**

Niklasch, Gerhard *see* **Leutbecher, Armin, 90i:11123**

Oriat, Bernard Groupes des classes d'idéaux des corps quadratiques réels $\mathbf{Q}(d^{1/2})$, $1 < d < 24572$. [Ideal class groups of the real quadratic fields $\mathbf{Q}(d^{1/2})$, $1 < d < 24572$] **90e:11167a**

— Groupes des classes d'idéaux des corps quadratiques imaginaires $\mathbf{Q}(d^{1/2})$, $-24572 < d < 0$. [Ideal class groups of the imaginary quadratic fields $\mathbf{Q}(d^{1/2})$, $-24572 < d < 0$] **90e:11167b**

Pethő, Attila *see* **Buchmann, J., 90e:11162**

Pohst, M. *see* **Buchmann, J., 90m:11168**

Saito, Michiyo (*with* Wada, Hideo) Tables of ideal class groups of real quadratic fields. **90a:11122**

Schulte, N. *see* **Gaál, István, 90b:11108**

Steidl, Gabriele *see* **Creutzburg, Reiner, 90i:11117**

Stephens, A. J. (*with* Williams, Hugh Cowie) Computation of real quadratic fields with class number one. **90b:11106**

Ströher, Harald *see* **Müller, Hans Helmut; et al., 90m:11086**

Tasche, Manfred *see* **Creutzburg, Reiner, 90e:11182**

Wada, Hideo *see* **Saito, Michiyo, 90a:11122**

Williams, Hugh Cowie *see* **Buchmann, J., 90a:11128; Stephens, A. J., 90b:11106** *and* **Fung, Gilbert W., 90m:11155**

Zimmer, Horst G. *see* **Müller, Hans Helmut; et al., 90m:11086**

11Y50 Computer solution of Diophantine equations

Brimkov, Valentin E. Effective algorithms for solving a broad class of linear Diophantine equations in nonnegative integers. (Bulgarian. English summary) **90i:11150**

Churchhouse, R. F. Presidential address: mathematics and computers. **90d:11140**

Clausen, Michael (*with* Fortenbacher, Albrecht) Efficient solution of linear Diophantine equations. **90i:11151**

Fortenbacher, Albrecht *see* **Clausen, Michael, 90i:11151**

Girault, Marc *see* **Vallée, Brigitte; et al., 90b:11144**

Iséki, Kiyoshi Some Diophantine equations from experimental number theory. **90m:11203a**

— Errata to the paper: "Some Diophantine equations from experimental number theory". **90m:11203b**

— On equations $2x^3 + x^2 + A = \square$ from experimental number theory. **90m:11204**

Toffin, Philippe *see* **Vallée, Brigitte; et al., 90b:11144**

Vallée, Brigitte (*with* Girault, Marc; Toffin, Philippe) Comment deviner les racines l-ièmes modulo n en réduisant des réseaux. [How to determine the lth roots modulo n by lattice reduction] **90b:11144**

de Weger, B. M. M. ★ Algorithms for Diophantine equations. **90m:11205**

Items with secondary classifications in 11Y50

Cook, Roger J. Computations for additive Diophantine equations: pairs of quintic congruences. II. **90b:11030**

Iséki, Kiyoshi Integral solutions of $x^3 + y^6 = z^2$ and related equations. **90m:11043a**

— Errata to the paper: "Integral solutions of $x^3 + y^6 = z^2$ and related equations". **90m:11043b**

Kramarz, G. *see* **Zagier, Don, 90d:11072**

Pethő, Attila On the representation of 1 by binary cubic forms with positive discriminant **90k:11027**

Shioda, Tetsuji The Galois representation of type E_8 arising from certain Mordell-Weil groups. **90f:11037**

Tanner, Jonathan W. (*with* Wagstaff, S. S., Jr.) New bound for the first case of Fermat's last theorem. **90h:11028**

Wagstaff, S. S., Jr. *see* **Tanner, Jonathan W., 90h:11028**

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Zagier, Don (*with* Kramarz, G.) Numerical investigations related to the L-series of certain elliptic curves. **90d:11072**

11Y55 Calculation of integer sequences

Cull, Paul (*with* Holloway, James L.) Computing Fibonacci numbers quickly. **90k:11170**

Erdős, Paul (*with* Riesel, Hans) On admissible constellations of consecutive primes. **90b:11145**

Holloway, James L. *see* **Cull, Paul, 90k:11170**

Iséki, Kiyoshi Palindromic prime numbers from experimental number theory. **90c:11094**

— Palindromic prime numbers from experimental number theory. II. **90c:11095**

Riesel, Hans *see* **Erdős, Paul, 90b:11145**

Items with secondary classifications in 11Y55

Alon, Noga (*with* Maass, Wolfgang) Meanders and their applications in lower bounds arguments. **90h:68047**

Kiriyama, Hiroshi *see* **Origuchi, Tadashi; et al., 90g:11026**

Maass, Wolfgang *see* **Alon, Noga, 90h:68047**

Matsuoka, Yoshio *see* **Origuchi, Tadashi; et al., 90g:11026**

Nagata, Shuro On computations of partial sums of binomial coefficients and related numbers. **90j:11019**

Origuchi, Tadashi (*with* Kiriyama, Hiroshi; Matsuoka, Yoshio) A table of the explicit formulas for the sums of powers $S_p(n) = \sum_{k=1}^{n} k^p$ for $p = 1(1)61$. II. **90g:11026**

Orlowski, Marian (*with* Pachter, M.) An algorithm for the determination of a longest increasing subsequence in a sequence. **90g:68053**

Pachter, M. *see* **Orlowski, Marian, 90g:68053**

Protasi, M. (*with* Talamo, Maurizio) On the number of arithmetical operations for finding Fibonacci numbers. **90g:68069**

Shallit, Jeffrey A generalization of automatic sequences (extended abstract). (*see* **90i:68014**)

Stephens, A. J. (*with* Williams, Hugh Cowie) An open architecture number sieve. (*see* **90m:11003**)

Talamo, Maurizio *see* **Protasi, M., 90g:68069**

Williams, Hugh Cowie *see* **Stephens, A. J., (90m:11003)**

11Y60 Evaluation of constants

Bailey, D. H. *see* **Borwein, J. M.; et al., 90d:11143**

Bao, Na Euler's constant and Euler's formula. (Chinese) **90h:11114**

Bernstein, B. (*with* Rogers, D. G.) A sum suggested by rational approximations to pi. **90d:11141**

Borwein, J. M. (*with* Borwein, P. B.) Ramanujan's rational and algebraic series for $1/\pi$. **90f:11103**

— (*with* Borwein, P. B.) Explicit Ramanujan-type approximations to pi of high order. **90d:11142**

— (*with* Borwein, P. B.; Bailey, D. H.) Ramanujan, modular equations, and approximations to pi, or How to compute one billion digits of pi. **90d:11143**

Borwein, P. B. *see* **Borwein, J. M., 90d:11142; 90d:11143** *and* **90f:11103**

Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) The computation of classical constants. **90m:11206**

Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90m:11206**

Hurley, Donal Recent computations of pi. **90e:11194**

Rogers, D. G. *see* **Bernstein, B., 90d:11141**

Trier, P. E. Pi revisited. **90e:11195**

Items with secondary classifications in 11Y60

Grayson, Daniel R. The arithogeometric mean. **90g:11071**

Kirschenhofer, P. (*with* Prodinger, H.; Schoißengeier, J.) Zur Auswertung gewisser numerischer Reihen mit Hilfe modularer Funktionen. (English summary) [On evaluating certain numerical series with the aid of modular functions] **90g:11057**

Prodinger, H. *see* **Kirschenhofer, P.; et al., 90g:11057**

Schoißengeier, J. *see* **Kirschenhofer, P.; et al., 90g:11057**

11Y65 Continued fraction calculations

Chen, Wen Chin *see* **Chung, Kuo Liang; et al., 90m:11207**

Chung, Kuo Liang (*with* Chen, Wen Chin; Lin, Fêng Ch'ing) Fast computation of periodic continued fractions. **90m:11207**

Håstad, J. (*with* Just, Bettina; Lagarias, J. C.; Schnorr, C.-P.) Polynomial time algorithms for finding integer relations among real numbers. **90g:11171**

Just, Bettina *see* **Håstad, J.; et al., 90g:11171**

Lagarias, J. C. *see* **Håstad, J.; et al., 90g:11171**

Lin, Fêng Ch'ing *see* **Chung, Kuo Liang; et al., 90m:11207**

Schnorr, C.-P. *see* **Håstad, J.; et al., 90g:11171**

Yokoo, Hidetoshi An efficient representation of the integers for the distribution of partial quotients over the continued fractions. **90b:11146**

Items with secondary classifications in 11Y65

Zagier, Don On an approximate identity of Ramanujan. **90c:11010**

11Y70 Values of arithmetic functions; tables

Items with secondary classifications in 11Y70

Erdős, Paul (*with* Riesel, Hans) On admissible constellations of consecutive primes. **90b:11145**

Massias, Jean-Pierre (*with* Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. **90e:11139**

Nicolas, Jean-Louis *see* **Massias, Jean-Pierre; et al., 90e:11139**

Riesel, Hans *see* **Erdős, Paul, 90b:11145**

Robin, Guy *see* **Massias, Jean-Pierre; et al., 90e:11139**

11Y99 None of the above, but in this section

Graci, Craig (*with* Narayan, Jack; Odendahl, Randy) Bunny numerics. A number theory microworld. **90e:11196**

Iséki, Kiyoshi Special palindromic prime numbers. **90a:11155**

Lovász, László Geometry of numbers: an algorithmic view. **90g:11172**

Narayan, Jack *see* **Graci, Craig; et al., 90e:11196**

Nikityuk, N. M. ★ Быстрые алгоритмы для координатных процессоров в поле Галуа GF(2^m) при множественности $1 \le t \le 3$. (Russian) [Fast algorithms for coordinate processors in the Galois field GF(2^m) for multiplicity $1 \le t \le 3$] **90b:11147**

— ★ Быстрые алгоритмы для координатных процессоров в поле Галуа для множественности $t = 4.5$ и $t > 5$. (Russian) [Fast algorithms for coordinate processors in the Galois field for multiplicity $t = 4.5$ and $t > 5$] **90c:11096**

Odendahl, Randy *see* **Graci, Craig; et al., 90e:11196**

Pankrat′ev, E. V. Factorization of polynomials of one variable. (Russian) **90e:11197**

Wolf, Marek Multifractality of prime numbers. **90h:11115**

Items with secondary classifications in 11Y99

Agnew, G. B. (*with* Mullin, R. C.; Vanstone, S. A.) Fast exponentiation in GF(2^n). **90b:11138**

Cantor, David G. On arithmetical algorithms over finite fields. **90f:11100**

Cohn, Harvey Computer algebra and the Hilbert modular equation. **90e:11065**

Henniart, Guy (*with* Mestre, J.-F.) Moyenne arithmético-géométrique p-adique. (English summary) [The p-adic arithmetic-geometric mean] **90g:11075**

Hermans, Arnold Verschlüsselung und Entschlüsselung von Nachrichten. [Coding and decoding of information] **90f:94030**

Mestre, J.-F. *see* **Henniart, Guy, 90g:11075**

Mullin, R. C. (*with* Onyszchuk, I. M.; Vanstone, S. A.; Wilson, Richard M.) Optimal normal bases in GF(p^n). **90c:11092**

— *see also* **Agnew, G. B.; et al., 90b:11138**

Niederreiter, H. The probabilistic theory of linear complexity. **90d:11138**

Onyszchuk, I. M. *see* **Mullin, R. C.; et al., 90c:11092**

Percus, J. K. *see* **Percus, Ora E., 90c:65013**

Percus, Ora E. (*with* Percus, J. K.) Long range correlations in linear congruential generators. **90c:65013**

Qiu, Yong Ping A matrix method and flow chart for finding greatest common divisors. (Chinese) **90g:11003**

Vanstone, S. A. *see* **Agnew, G. B.; et al., 90b:11138** *and* **Mullin, R. C.; et al., 90c:11092**

Wilson, Richard M. *see* **Mullin, R. C.; et al., 90c:11092**

12–XX Field theory and polynomials

12–01 Elementary exposition; textbooks

Boja, N. (*with* Dăianu, Dan) ★ Elemente algebrice şi topologice de teoria corpurilor. (Romanian) [Algebraic and topological elements of field theory] **90g:12001**

Dăianu, Dan *see* **Boja, N., 90g:12001**

Endler, Otto ★ Teoria dos corpos. (Portuguese) [Field theory] **90e:12001**

(Galois, Évariste) *see* **Stewart, Ian, 90j:12001**

Karpilovsky, Gregory ★ Field theory. **90a:12001**

Stewart, Ian ★ Galois theory. **90j:12001**

Items with secondary classifications in 12–01

Barbeau, E. J. ★ Polynomials. **90f:12001**

Burton, David M. ★ Abstract algebra. **90m:00004**

Carrega, Jean-Claude ★ Théorie des corps. (French) [Theory of fields] **90b:01001**

(Cauchy, Augustin) *see* **Burton, David M., 90m:00004**

(Cayley, Arthur) *see* **Burton, David M., 90m:00004**

(Galois, Évariste) *see* **Burton, David M., 90m:00004**

Gårding, Lars (*with* Tambour, Torbjörn) ★ Algebra for computer science. **90b:00003**

Jacobson, Nathan ★ Basic algebra. II. **90m:00007**

Kim, Myong-Hi Topological complexity of a root finding algorithm. **90m:65058**

Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] **90k:12002**

Nagao, Hirosi ★ Daisugaku. (Japanese) [Algebra] **90h:00001**

(Noether, Emmy) *see* **Burton, David M., 90m:00004**

Pieper, Herbert ★ Die komplexen Zahlen. (German) [The complex numbers] **90d:12002**

(Reid, Miles) *see* **Shafarevich, I. R., 90k:00010**

Shafarevich, I. R. ★ Noţiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] **90k:00009**

— ★ Algebra. I. **90k:00010**

(Spircu, T.) *see* **Shafarevich, I. R., 90k:00009**

Tambour, Torbjörn *see* **Gårding, Lars, 90b:00003**

12–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 12–02

Karpilovsky, Gregory ★ Field theory. **90a:12001**

Nishioka, Keiji ★ Daisūteki bibun hōteishiki no ippankai—bibun daisū nyumon. (Japanese) [General solutions of algebraic differential equations—an introduction to differential algebra] **90a:12016**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

Bulycheva, M. G. *see* **Petrova, S. S., 90e:01022**

Gross, Benedict H. (*with* Tate, J.) Commentary on algebra. **90m:01035**

al-Khwārizmī, Muḥammad ibn Mūsā ★ The algebra of Mohammed ben Musa. **90m:01006**

(Newton, I.) *see* **Petrova, S. S., 90e:01022**

Petrova, S. S. (*with* Bulycheva, M. G.) From the history of the method of the Newton polygon. (Russian) **90e:01022**

(Rosen, Frederick) *see* **al-Khwārizmī, Muḥammad ibn Mūsā, 90m:01006**

Tate, J. *see* **Gross, Benedict H., 90m:01035**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Ben-Or, Michael (*with* Feig, Ephraim; Kozen, Dexter; Tiwari, Prasoon) A fast parallel algorithm for determining all roots of a polynomial with real roots. **90a:12002**

Carnicer, J. M. (*with* Gasca, M.) Evaluation of multivariate polynomials and their derivatives. **90h:12001**

Czapor, S. R. Solving algebraic equations via Buchberger's algorithm. **90m:12001**

Davenport, J. H. Algebraic computations and structures. **90e:12002**

Feig, Ephraim *see* **Ben-Or, Michael; et al., 90a:12002**

Fich, Faith E. (*with* Tompa, Martin) The parallel complexity of exponentiating polynomials over finite fields. **90c:12001**

Gasca, M. *see* **Carnicer, J. M., 90h:12001**

Kozen, Dexter *see* **Ben-Or, Michael; et al., 90a:12002**

Kyurkchiev, Nikolaĭ V. *see* **Markov, Svetoslav M., 90e:12004**

Langemyr, Lars (*with* McCallum, Scott) The computation of polynomial greatest common divisors over an algebraic number field. **90k:12001**

Lidl, R. (*with* Matthews, Rex) GALOIS: an algebra microcomputer package. **90a:12003**

Liu, Zhuo Jun An algorithm for decomposing high degree polynomials. **90e:12003**

Markov, Svetoslav M. (*with* Kyurkchiev, Nikolaĭ V.) A method for solving algebraic equations. **90e:12004**

Matthews, Rex *see* **Lidl, R., 90a:12003**

McCallum, Scott *see* **Langemyr, Lars, 90k:12001**

Norton, G. H. Precise analyses of the right- and left-shift greatest common divisor algorithms for GF(q)[x]. **90h:12002**

Rónyai, Lajos Algorithms in algebra. (Hungarian) **90e:12005**

Tiwari, Prasoon *see* **Ben-Or, Michael; et al., 90a:12002**

Tompa, Martin *see* **Fich, Faith E., 90c:12001**

Items with secondary classifications in 12–04

Alonso, M. E. (*with* Luengo, I.; Raimondo, M.) An algorithm on quasi-ordinary polynomials. **90j:12004**

Arnborg, Stefan (*with* Feng, Huichun) Algebraic decomposition of regular curves. **90a:68042**

Averbuch, Amir (*with* Galil, Zvi; Winograd, Shmuel) Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial. I. The algebra $G[u]/\langle Q(u)^l\rangle$, $l > 1$. **90b:68036**

Bocharov, A. V. (*with* Bronshteĭn, M. L.) Efficiently implementing two methods of the geometrical theory of differential equations: an experience in algorithm and software design. **90j:65002**

Bronshteĭn, M. L. *see* **Bocharov, A. V., 90j:65002**

Char, Bruce W. (*with* Geddes, K. O.; Gonnet, Gaston H.) GCDHEU: heuristic polynomical GCD algorithm based on integer GCD computation. **90g:68073**

Chistov, A. L. Algorithms of polynomial complexity for computational problems in the theory of algebraic curves. (Russian. English summary) **90m:14001**

Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. I. **90d:68031a**

— (*with* Chudnovsky, Gregory V.) On expansion of algebraic functions in power and Puiseux series. II. **90d:68031b**

Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90d:68031a** *and* **90d:68031b**

Duval, Dominique Rational Puiseux expansions. **90c:14001**

Feng, Huichun *see* **Arnborg, Stefan, 90a:68042**

Ford, David J. (*with* McKay, John) Computation of Galois groups from polynomials over the rationals. **90h:11113**

Galil, Zvi *see* **Averbuch, Amir; et al., 90b:68036**

Geddes, K. O. *see* **Char, Bruce W.; et al., 90g:68073**

Girault, Marc *see* **Vallée, Brigitte; et al., 90b:11144**

Gonnet, Gaston H. *see* **Char, Bruce W.; et al., 90g:68073**

Grigorʹev, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) **90k:03007**

Gutiérrez, Jaime (*with* Recio Muñiz, Tomás J.; Ruiz de Velasco y Bellas, Carlos) Polynomial decomposition algorithm of almost quadratic complexity. (*see* **90d:94002**)

Kasahara, Masao *see* **Morii, Masakatu; et al., 90m:94038**

Le Brigand, D. Polynomial factorization using Brill-Noether algorithm. (French summary) **90m:11200**

Liu, Zhuo Jun A method of isolating complex roots of polynomials—an application of Wu-Ritt principle. (Chinese summary) **90j:65072**

Luengo, I. *see* **Alonso, M. E.; et al., 90j:12004**

Malle, Gunter Polynomials with Galois groups Aut(M_{22}), M_{22}, and $\mathrm{PSL}_3(\mathrm{F}_4)\cdot 2_2$ over **Q**. **90h:12008**

McKay, John Advances in computational Galois theory. (*see* **90m:00036**)

— *see also* **Ford, David J., 90h:11113**

Morii, Masakatu (*with* Kasahara, Masao; Whiting, Douglas L.) Efficient bit-serial multiplication and the discrete-time Wiener-Hopf equation over finite fields. **90m:94038**

Muller, Jean-Michel *see* **Siebert-Roch, Françoise, 90m:68070**

Pankratʹev, E. V. Factorization of polynomials of one variable. (Russian) **90e:11197**

Plotkin, B. I. Galois theory of databases. **90i:68029**

Raimondo, M. *see* **Alonso, M. E.; et al., 90j:12004**

Recio Muñiz, Tomás J. *see* **Gutiérrez, Jaime; et al.,** (**90d:94002**)

Renegar, James On the worst-case arithmetic complexity of approximating zeros of systems of polynomials. **90j:68021**

Robbiano, Lorenzo Introduction to the theory of Gröbner bases. **90a:13003**

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Ruiz de Velasco y Bellas, Carlos *see* **Gutiérrez, Jaime; et al.,** (**90d:94002**)

Sakkalis, Takis Signs of algebraic numbers. **90m:12004**

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12–06 Proceedings, conferences, etc.

(**Tournier, E.**) *see* **Computer algebra and differential equations, 90m:12002**

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Computer algebra and differential equations ★ Computer algebra and differential equations. **90m:12002**

Items with secondary classifications in 12–06

(**Durand, Alain**) *see* **Fifty years of polynomials, 90j:00018**

(**Langevin, M.**) *see* **Fifty years of polynomials, 90j:00018**

(**Waldschmidt, M.**) *see* **Fifty years of polynomials, 90j:00018**

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Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Conference:

  Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

  Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**

Corvallis, OR ★ Quadratic forms and real algebraic geometry. **90j:14028**

Fifty years of polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

Paris ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**

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12Dxx Real and complex fields

12D05 Polynomials: factorization

Barbeau, E. J. ★ Polynomials. **90f:12001**

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12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Chądzyński, Jacek *see* **Charzyński, Zygmunt; et al., 90a:12004**

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Leahy, John V. (*with* Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz. **90d:12001**

Leahy, John V., IV *see* **Leahy, John V., 90d:12001**

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Arnon, Dennis S. (*with* Mignotte, Maurice) On mechanical quantifier elimination for elementary algebra and geometry. **90a:03010**

Barmish, B. Ross A generalization of Kharitonov's four-polynomial concept for robust stability problems with linearly dependent coefficient perturbations. **90b:93093**

Encheva, T. I. (*with* Levin, A. Yu.) Zeros of quasi-polynomials and linear time-optimal control problem. **90d:49020**

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Kozek, Andrzej (*with* Trzmielak-Stanisławska, Anna) On a class of omnibus algorithms for zero-finding. **90c:65072**

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— Solution des problèmes de Favard. (English summary) [Solution of Favard problems] **90b:11104**

Leeming, David J. The real zeros of the Bernoulli polynomials. **90k:33029**

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McKay, James H. (*with* Wang, Stuart Sui Sheng) A chain rule for the resultant of two polynomials. **90h:12006**

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Miller, John D. *see* **Martin, Clyde Franklin; et al., 90m:65107**

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Schinzel, A. *see* **Nicolas, Jean-Louis, 90k:30007**

Scowcroft, Philip Some continuous Positivstellensätze. **90h:12005**

Sikorski, K. Study of linear information for classes of polynomial equations. **90e:65076**

Sinaceur, Hourya Benis Deux moments dans l'histoire du théorème d'algèbre de Ch. F. Sturm. (English summary) [Two events in the history of the algebraic theorem of C. F. Sturm] **90d:01028**

Soh, Y. C. Strict Hurwitz property of polynomials under coefficient perturbation. **90d:93077**

Trzmielak-Stanisławska, Anna *see* **Kozek, Andrzej, 90c:65072**

Wang, Stuart Sui Sheng *see* **McKay, James H., 90h:12006**

12D15 Formally real fields [see also 12J10, 12J15]

Bradley, Margarita A sufficient condition for a polynomial to be sum of $2m$th powers of rational functions. **90e:12006**

Jarden, Moshe The algebraic nature of the elementary theory of PRC fields. **90h:12004**

Knebusch, Manfred (*with* Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] **90m:12005**

Kucharz, W. Invertible ideals in real holomorphy rings. **90j:12002**

Scheiderer, Claus *see* **Knebusch, Manfred, 90m:12005**

Scowcroft, Philip Some continuous Positivstellensätze. **90h:12005**

Zeng, Guang Xing Polynomials over real valuation rings with core. (Chinese) **90a:12005**

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Becker, Eberhard (*with* Gondard, Danielle) On rings admitting orderings and 2-primary chains of orderings of higher level. **90h:11033**

Bochnak, J. (*with* Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] **90b:14030**

Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. **90k:14019**

Buchner, M. A. (*with* Kucharz, W.) On relative real holomorphy rings. **90i:14025**

Bürger, Gerd The $\mathscr{L}^{<\omega}$-theory of the class of Archimedean real closed fields. **90i:03039**

Cegielski, Patrick La théorie des corps réels-clos inductifs est une extension conservative de l'arithmétique de Peano. (English summary) [The theory of inductive real-closed fields is a conservative extension of Peano arithmetic] **90m:03073**

Coste, M. *see* **Bochnak, J.; et al., 90b:14030**

Craven, Thomas C. Approximation properties for orderings on $*$-fields. **90j:12019**

Ershov, Yu. L. RRC-fields with small absolute Galois groups. **90f:03016**

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Fest, Markus (*with* Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] **90m:12013**

Fitzgerald, Robert W. Ideal class groups of Witt rings. **90g:11053**

Gondard, Danielle *see* **Becker, Eberhard, 90h:11033**

Grigor′ev, D. Yu. Complexity of decision for the first-order theory of real-closed fields. (Russian) **90k:03007**

Hornix, E. A. M. Field invariants under totally positive quadratic extensions. **90a:11044**

Jadda, Zoubida Constructions de places réelles et géométrie semi-algébrique. [Constructions of real places and semi-algebraic geometry] **90e:14021**

Knebusch, Manfred ★ Weakly semialgebraic spaces. **90j:14027**

Koepke, Peter On the elimination of Malitz quantifiers over Archimedean real closed fields. **90k:03029**

Krüskemper, Martin (*with* Scharlau, Winfried) On positive quadratic forms. **90b:11037**

Kucharz, W. *see* **Buchner, M. A., 90i:14025**

Leahy, John V. (*with* Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz. **90d:12001**

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Madden, James J. Pierce-Birkhoff rings. **90m:14019**

Marchiò, Carla *see* **Pasini, Leonardo, 90i:26030**

Marinari, Maria Grazia Algebraic aspects of real geometry. (Italian) **90a:14031**

Mináč, Ján Quaternion fields inside Pythagorean closure. **90b:11033**

Mulcahy, Colm A representation theorem for higher level reduced Witt rings. **90a:11049**

Pasini, Leonardo (*with* Marchiò, Carla) Exponentially and logarithmically closed Hardy fields in several variables. **90i:26030**

Roy, M.-F. *see* **Bochnak, J.; et al., 90b:14030**

Ruiz, Jesús M. A characterization of sums of $2n$th powers of global meromorphic functions. **90k:32035**

Scharlau, Winfried *see* **Krüskemper, Martin, 90b:11037**

Scheiderer, Claus Stability index of real varieties. **90g:14011**

Schröder, Martin *see* **Fest, Markus, 90m:12013**

Schwartz, Niels The basic theory of real closed spaces. **90a:14032**

Simon, Odile Aspects quantitatifs de Nullstellensätze et de Positivstellensätze. Nombres de Pythagore. [Quantitative aspects of Nullstellensätze and Positivstellensätze. Pythagorean numbers] **90f:11024**

Stengle, Gilbert A measure for semialgebraic sets related to Boolean complexity. **90b:14031**
Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. **90g:11054**

12D99 None of the above, but in this section

Brownawell, W. Dale Aspects of the Hilbert Nullstellensatz. **90e:12007**
van den Dries, Lou Convergent series expansions of a new type for exponential functions. **90k:12003**
Pieper, Herbert ★ Die komplexen Zahlen. (German) [The complex numbers] **90d:12002**
Shub, Michael On the distance to the zero set of a homogeneous polynomial. **90k:12004**
Tortrat, Pierre Sur la composition des polynômes. [On the composition of polynomials] **90f:12002**

Items with secondary classifications in 12D99

Berenstein, Carlos A. (*with* Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) **90f:32006**
Burov, A. A. Application of extensions of the real number field to searching for completely integrable Hamiltonian systems. **90h:70012**
Christol, G. Diagonales de fractions rationnelles. [Diagonals of rational fractions] **90m:12007a**
— Erratum: "Diagonals of rational fractions". (French) **90m:12007b**
Gay, Roger *see* **Berenstein, Carlos A.; et al., 90f:32006**
Goze, Michel (*with* Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] **90m:14003**
Holden, Herbert Lee Rings on $\mathbf{R}^2$. **90d:16024**
Lutz, Robert *see* **Goze, Michel, 90m:14003**
Yger, Alain *see* **Berenstein, Carlos A.; et al., 90f:32006**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Caniglia, Léandro (*with* Galligo, André; Heintz, Joos) Borne simple exponentielle pour les degrés dans le théorème des zéros sur un corps de caractéristique quelconque. (English summary) [Exponential simple bound for the degrees in the Nullstellensatz on a field of any characteristic] **90c:12002**
Dobbs, David E. Fields with the simple binomial theorem. **90e:12008**
Galligo, André *see* **Caniglia, Léandro; et al., 90c:12002**
Heintz, Joos *see* **Caniglia, Léandro; et al., 90c:12002**
Llovet, Juan (*with* Sendra, Juan R.) Hankel matrices and polynomials. **90i:12001**
McKay, James H. (*with* Wang, Stuart Sui Sheng) A chain rule for the resultant of two polynomials. **90h:12006**
Nöbauer, Wilfried Vertauschbare Polynome: an den Grenzen der Koeffizientenvergleichsmethode. [Permutable polynomials: the limits of the coefficient comparison method] **90e:12009**
Panaitopol, L. (*with* Ştefănescu, D.) Factorization criteria for polynomials. **90a:12006**
Redheffer, Ray (*with* Voigt, Alexander) Die Fredholmsche Alternative und Polynome. [The Fredholm alternative and polynomials] **90i:12002**
Sendra, Juan R. *see* **Llovet, Juan, 90i:12001**
Ştefănescu, D. *see* **Panaitopol, L., 90a:12006**
Voigt, Alexander *see* **Redheffer, Ray, 90i:12002**
Wang, Stuart Sui Sheng *see* **McKay, James H., 90h:12006**

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Allan, Nelo D. A simple proof of a generalization of Eisenstein's irreducibility criterion. **90d:11032**
Barbeau, E. J. ★ Polynomials. **90f:12001**
Berenstein, Carlos A. (*with* Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] **90d:32007**
Brawley, J. V. (*with* Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. **90i:12004**
Czapor, S. R. Solving algebraic equations via Buchberger's algorithm. **90m:12001**
Dèbes, Pierre Résultats récents liés au théorème d'irréductibilité de Hilbert. [Recent results related to Hilbert's irreducibility theorem] **90m:11151**
Dvornicich, Roberto (*with* Traverso, Carlo) Newton symmetric functions and the arithmetic of algebraically closed fields. **90h:68066**
Gel'fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) *A*-discriminants and Cayley-Koszul complexes. **90k:14054**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Newton polyhedra of principal *A*-determinants. **90k:14055**
Kappe, Luise-Charlotte (*with* Warren, Bette) An elementary test for the Galois group of a quartic polynomial. **90i:12006**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 90k:14054** *and* **90k:14055**
Schinzel, A. Reducibility of lacunary polynomials. IX. **90a:11117**
Schnibben, George E. *see* **Brawley, J. V., 90i:12004**
Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] **90m:20003**
Stoyanova-Kouncheva, Bogdana I. Stability and error estimate of some parallel algorithms for polynomial evaluation. **90a:65291**
Tortrat, Pierre Sur la composition des polynômes. [On the composition of polynomials] **90f:12002**
Traverso, Carlo *see* **Dvornicich, Roberto, 90h:68066**
Wang, Yu[1] All trees with ten vertices and with characteristic polynomials that are unsolvable by radicals. (Chinese) **90h:05101**
— *see also* **Yang, Zheng Xiao, 90h:05102**
Warren, Bette *see* **Kappe, Luise-Charlotte, 90i:12006**
Wu, Wen Jun Errata and addenda to the paper: "A mechanization method of geometry. I. Elementary geometry" [Chinese Quart. J. Math. **1** (1986), no. 1, 1–14; MR 88b:03023]. **90f:03028**
Yang, Zheng Xiao (*with* Wang, Yu[1]) The six-vertex graphs whose characteristic polynomials are not solvable by radicals. (Chinese) **90h:05102**
Yger, Alain *see* **Berenstein, Carlos A., 90d:32007**
Zelevinskiĭ, A. V. *see* **Gel'fand, I. M.; et al., 90k:14054** *and* **90k:14055**

12E10 Special polynomials

Jensen, C. U. (*with* Yui, Noriko) Quaternion extensions. **90a:12007**
Yui, Noriko *see* **Jensen, C. U., 90a:12007**

Items with secondary classifications in 12E10

Clarke, Francis The universal von Staudt theorems. **90a:11026**
Damphousse, Pierre The arithmetic of powers and roots in $\mathrm{Gl}_2(\mathbf{C})$ and $\mathrm{Sl}_2(\mathbf{C})$. **90j:15034**
Feit, Walter Some finite groups with nontrivial centers which are Galois groups. **90d:12004**
Gow, R. Some generalized Laguerre polynomials whose Galois groups are the alternating groups. **90m:12008**
Jensen, C. U. On the representations of a group as a Galois group over an arbitrary field. **90k:12006**
Malle, Gunter Polynomials with Galois groups $\mathrm{Aut}(M_{22})$, M_{22}, and $\mathrm{PSL}_3(\mathbf{F}_4)\cdot 2_2$ over $\mathbf{Q}$. **90h:12008**
Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] **90h:11110**
Nöbauer, Wilfried Vertauschbare Polynome: an den Grenzen der Koeffizientenvergleichsmethode. [Permutable polynomials: the limits of the coefficient comparison method] **90e:12009**
Rushanan, Joseph J. On the Vandermonde matrix. **90j:15039**
Schacher, Murray (*with* Sonn, Jack) Double covers of the symmetric groups as Galois groups over number fields. **90a:11131**
Schneps, Leila $\widetilde{D}_4$ et $\hat{D}_4$ comme groupes de Galois. (English summary) [$\widetilde{D}_4$ and $\hat{D}_4$ as Galois groups] **90f:12004**
Sonn, Jack Double covers of the alternating and symmetric groups as Galois groups over number fields. **90a:11132**
— *see also* **Schacher, Murray, 90a:11131**

12E12 Equations

Girstmair, Kurt Über die praktische Auflösung von Gleichungen höheren Grades. [On the practical solution of equations of higher degree] **90i:12003**

Items with secondary classifications in 12E12

Barbeau, E. J. ★ Polynomials. **90f:12001**
Redheffer, Ray (*with* Voigt, Alexander) Die Fredholmsche Alternative und Polynome. [The Fredholm alternative and polynomials] **90i:12002**
Voigt, Alexander *see* **Redheffer, Ray, 90i:12002**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45 16A39]

Kang, Ming Chang Azumaya *p*-algebras. **90a:12008**
Lam, T. Y. (*with* Leroy, André) Vandermonde and Wronskian matrices over division rings. **90a:12009**
Leroy, André *see* **Lam, T. Y., 90a:12009**
Morandi, Pat The Henselization of a valued division algebra. **90h:12007**
Riehm, Carl R. The quadratic Schur subgroup over local and global fields. **90c:12003**
Schofield, Aidan Rigid division rings. **90k:12005**

Items with secondary classifications in 12E15

Berele, Allan (*with* Saltman, David) The centers of generic division algebras with involution. **90d:16012**
Chipchakov, I. D. On the extension of field valuations to division algebras. (Russian) **90m:16021**
Craven, Thomas C. Approximation properties for orderings on $*$-fields. **90j:12019**
Denert, Marleen (*with* Van Geel, Jan) Remark on a paper of D. W. Lewis concerning the level of division algebras: "Levels and sublevels of division algebras" [Proc. Roy. Irish Acad. Sect. A **87** (1987), no. 1, 103–106; MR 89f:12003]. **90k:16019**
Endo, Shizuo Nonrationality of algebraic tori of norm type and its application to generic division rings. (*see* **90k:16001**)
Fest, Markus (*with* Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] **90m:12013**
Jacobson, Nathan Splitting fields. **90j:16037**
Kang, Ming Chang Constructions of Brauer-Severi varieties and norm hypersurfaces. **90j:14029**
Karpilovsky, Gregory ★ Unit groups of classical rings. **90e:20007**
Lam, T. Y. (*with* Leroy, André) Vandermonde and Wronskian matrices over division rings **90f:16005**
— Fields of *u*-invariant 6 after A. Merkurjev [A. S. Merkur'ev]. **90m:11057**
Lawrence, John W. (*with* Simons, G. E.) Equations in division rings—a survey. **90g:16015**
Le Bruyn, Lieven (*with* Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. **90h:16004**
Leep, David B. (*with* Tignol, J.-P.; Vast, N.) The level of division algebras over local and global fields. **90i:11038**
Leroy, André *see* **Lam, T. Y., 90f:16005**
(Lewis, D. W.) *see* **Denert, Marleen, 90k:16019**
MacRae, R. E. On the theory of division algebras. **90f:16019**
Masuoka, Akira Co-Galois theory for field extensions. **90i:12005**

Meixner, Thomas Eine Bemerkung zu den Kreisteilungspolynomen. [A remark on cyclotomic polynomials] **90h:11110**

(Merkur′ev, A. S.) *see* **Lam, T. Y., 90m:11057**

Rónyai, Lajos Zero divisors in quaternion algebras. **90f:11102**

Saltman, David *see* **Berele, Allan, 90d:16012**

Schröder, Martin *see* **Fest, Markus, 90m:12013**

Simons, G. E. *see* **Lawrence, John W., 90g:16015**

Tignol, J.-P. *see* **Leep, David B.; et al., 90i:11038**

Treur, Jan On duality for skew field extensions. **90b:16027**

Van den Bergh, Michel *see* **Le Bruyn, Lieven; et al., 90h:16004**

Van Geel, Jan *see* **Denert, Marleen, 90k:16019**

Van Oystaeyen, F. *see* **Le Bruyn, Lieven; et al., 90h:16004**

Vast, N. *see* **Leep, David B.; et al., 90i:11038**

Wadsworth, Adrian R. The residue division ring of a valued division algebra. **90b:16028**

— Dubrovin valuation rings and Henselization. **90f:16009**

12E20 Finite fields {For number-theoretic questions, see 11Txx.}

Ash, David W. (*with* Blake, Ian F.; Vanstone, S. A.) Low complexity normal bases. **90m:12006**

Blake, Ian F. *see* **Ash, David W.; et al., 90m:12006**

Brawley, J. V. (*with* Schnibben, George E.) ★ Infinite algebraic extensions of finite fields. **90i:12004**

Lidl, R. (*with* Matthews, Rex) A microcomputer implementation of Galois fields. **90a:12010**

MacHale, Desmond Wedderburn's theorem revisited (again). **90e:12010**

Matthews, Rex *see* **Lidl, R., 90a:12010**

Schnibben, George E. *see* **Brawley, J. V., 90i:12004**

Shparlinskiĭ, I. E. *see* **Stepanov, S. A., 90j:12003**

Stepanov, S. A. (*with* Shparlinskiĭ, I. E.) On the construction of a primitive normal basis of a finite field. (Russian) **90j:12003**

Vanstone, S. A. *see* **Ash, David W.; et al., 90m:12006**

Items with secondary classifications in 12E20

Agnew, G. B. (*with* Mullin, R. C.; Vanstone, S. A.) Fast exponentiation in GF(2^n). **90b:11138**

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12Fxx Field extensions

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12F05 Algebraic extensions

(Ayad, Mohammed) *see* **Varadarajan, K., 90e:12011**

Childs, Lindsay N. On the Hopf Galois theory for separable field extensions. **90g:12003**

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12F10 Separable extensions, Galois theory

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Beale, Stephen (*with* Harrison, D. K.) Generalized cyclotomic fields. **90j:12008**

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12F15 Inseparable extensions, derivations

Kosaki, Kôtaro On the extension of high order derivations for inseparable extensions. **90h:12009**

12F20 Transcendental extensions

Deveney, James K. (*with* Yanik, Joe) Nonrational fixed fields. **90i:12007**
— (*with* Yanik, Joe) Rationality of some genus 0 extensions of $K(X)$. **90h:12010**
Dzhuraev, O. A method for the effective construction of the field of algebraic functions that corresponds to an n-sheeted covering of a sphere. (Russian. English summary) **90a:12015**
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12Gxx Homological methods

12G05 Galois cohomology [see also 11R34, 11S25, 13A20, 16A16]

Barge, Jean Cohomologie des groupes et corps d'invariants multiplicatifs. [Group cohomology and fields of multiplicative invariants] **90c:12006**
Hales, A. W. Abelian groups as Brauer and character groups. **90j:12010**
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Snaith, Victor ★ Topological methods in Galois representation theory. **90f:12005**
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Ford, Timothy J. (*with* Saltman, David) Division algebras over Henselian surfaces. **90k:13001**
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Grayson, Daniel R. On the K-theory of fields. **90c:18010**
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Narzullaev, U. Kh. Subgroups of the group $\mathrm{GL}(2, \mathbf{Z}/p^n\mathbf{Z})$ and their Serre groups. (Russian) **90f:20075**
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Schneps, Leila $\widetilde{D}_4$ et $\hat{D}_4$ comme groupes de Galois. (English summary) [$\widetilde{D}_4$ and $\hat{D}_4$ as Galois groups] **90f:12004**
Wyler, Thomas À propos d'un lemme de K. Kato sur le groupe de Brauer en caractéristique p. [Concerning a lemma of K. Kato on the Brauer group in characteristic p] **90j:13006**
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12G10 Cohomological dimension

Items with secondary classifications in 12G10

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12Hxx Differential and difference algebra

Items with secondary classifications in 12Hxx

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12H05 Differential algebra [see also 13N05]

Abu-Saymeh, Sadi Higher derivations of algebraic function fields. **90c:12007**
Bass, Hyman Differential structure of étale extensions of polynomial algebras. **90m:12009**
Brestovski, Michel Algebraic independence of solutions of differential equations of the second order. **90j:12012**
Carrà Ferro, Giuseppa Gröbner bases and differential algebra. **90i:12009**
— Some remarks on the differential dimension. **90j:12013**
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Geddes, K. O. (*with* Scott, T. C.) Recipes for classes of definite integrals involving exponentials and logarithms. **90f:12006**
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Mikhalëv, A. V. *see* **Levin, A. B., 90b:12001**
Nishioka, Keiji ★ Daisūteki bibun hōteishiki no ippankai—bibun daisū nyumon. (Japanese) [General solutions of algebraic differential equations—an introduction to differential algebra] **90a:12016**
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Beukers, F. (*with* Heckman, Gert) Monodromy for the hypergeometric function ${}_nF_{n-1}$. **90f:11034**
Derevenskiĭ, V. P. Quasilinear matrix differential equations. (Russian. English summary) **90d:34027**
Egorchenko, I. A. *see* **Fushchich, V. I., 90i:35013**
Fliess, Michel Automatique et corps différentiels. (English summary) [Automatic control and differential fields] **90e:93041**
— State-variable representation revisited, application to some control problems. (*see* **90k:93008**)
Fushchich, V. I. (*with* Egorchenko, I. A.) Differential invariants of the Galilei algebra. (Russian. English summary) **90i:35013**
Gerdt, V. P. (*with* Zharkov, A. Yu.; Svinolupov, S. I.; Shabat, A. B.) Application of computer algebra to the investigation of the integrability of nonlinear evolution systems. **90e:65176**
Gibbons, John (*with* Kupershmidt, Boris A.) Kinetic representation of discrete integrable systems. **90k:58084**
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12H10 Difference algebra [see also 39Axx]

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12H20 Abstract differential equations [see also 34Gxx]

Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) **90g:12009**
Marić, V. Differential and algebraic equations in Hardy fields. **90m:12012**
Noumi, Masatoshi Wronskian determinants and the Gröbner representation of a linear differential equation: an approach to nonlinear integrable systems. **90h:12013**
Singer, Michael F. Liouvillian solutions of linear differential equations with Liouvillian coefficients (extended abstract). **90i:12011**
Takayama, Nobuki Gröbner basis and the problem of contiguous relations. **90d:12005**
Toki, Keisuke A remark on a homogeneous linear ordinary differential equation in characteristic $p > 0$ whose p-curvature is zero. **90f:12007**
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Kupershmidt, Boris A. Long wave equations and metrizable Lie algebras. **90d:58055**
Lahiri, Anuradha *see* **Bagchi, Bijan Kumar; et al., 90a:35192**
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Litinsky, Eugene Polynomial integrals of evolution equations. **90a:58073**
Malgrange, Bernard Transformation de Fourier géometrique. [The geometric Fourier transform] **90c:58178**
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Pommaret, J.-F. Problèmes formels en théorie du contrôle aux dérivées partielles. (English summary) [Formal problems in partial differential control theory] **90c:93024**
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Radul, A. O. *see* **Lebedev, D. R., 90c:58058**
Ramis, J.-P. (*with* Sibuya, Y.) Hukuhara domains and fundamental existence and uniqueness theorems for asymptotic solutions of Gevrey type. **90k:58209**
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Salikhov, V. Kh. Formal solutions of linear differential equations and their application in the theory of transcendental numbers. (Russian) **90e:11110**
Sarmant-Durix, Marie-Claude *see* **Escassut, Alain, 90k:46166**
Sattinger, David H. *see* **Pöppe, C., 90b:58111**
Sibuya, Y. *see* **Ramis, J.-P., 90k:58209**
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Vasil'ev, M. A. Equations of motion of interacting massless fields of all spins as a free differential algebra. **90b:81052**

12H25 p-adic differential equations [see also 11S80, 14G20, 34Gxx]

André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] **90f:12008**
Bézivin, J.-P. (*with* Robba, P.) Rational solutions of linear differential equations. **90c:12009**
Robba, P. *see* **Bézivin, J.-P., 90c:12009**

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André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984–85*, 1–22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) **90h:14061**
— ★ G-functions and geometry. **90k:11087**
Bézivin, J.-P. (*with* Robba, P.) Solutions rationnelles d'équations différentielles. Application à un problème de transcendance. [Rational solutions of differential equations. Application to a transcendence problem] **90j:11061**
Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p-adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p-adic cohomologies] **90c:14012**
— A comparison theorem in p-adic cohomology. **90i:14020**
Robba, P. *see* **Bézivin, J.-P., 90j:11061**

12H99 None of the above, but in this section

Items with secondary classifications in 12H99

Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. **90e:33018**

12Jxx Topological fields

Warner, Seth ★ Topological fields. **90i:12012**

12J05 Normed fields

Items with secondary classifications in 12J05

Sieburg, Hans-Bernd Transcendence theory over nonlocal fields. **90h:11058**

12J10 Valued fields

Garg, Usha *see* **Khanduja, Sudesh K., 90e:12019**
Khanduja, Sudesh K. (*with* Garg, Usha) On extensions of valuations to simple transcendental extensions. **90e:12019**
Kontolatou, A. (*with* Stabakis, J. N.) Completion in a G-valuated topological field. **90c:12010**
Lenstra, H. W., Jr. (*with* Stevenhagen, Peter) Über das Fortsetzen von Bewertungen in vollständigen Körpern. [On the continuation of valuations in complete fields] **90j:12018**
Polzin, Marc Prolongement de la valeur absolue de Gauss et problème de Skolem. (English summary) [Extension of the Gauss valuation, and the Skolem problem] **90e:12020**
Stabakis, J. N. *see* **Kontolatou, A., 90c:12010**
Stevenhagen, Peter *see* **Lenstra, H. W., Jr., 90j:12018**

Items with secondary classifications in 12J10

Delon, Françoise Model theory of Henselian valued fields. **90j:12022**
Dickmann, M. A. The model theory of chain-closed fields. **90i:03040**
Knebusch, Manfred (*with* Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] **90m:12005**
Kontolatou, A. *see* **Stabakis, J. N., 90a:12018**
Matignon, Michel Genre et genre residuel des corps de fonctions valués. [Genus and residual genus of valuated function fields] **90a:11063**
— (*with* Ohm, Jack) A structure theorem for simple transcendental extensions of valued fields. **90h:12011**
Morandi, Pat Value functions on central simple algebras. **90e:16007**
Ohm, Jack The Henselian defect for valued function fields. **90h:12012**
— *see also* **Matignon, Michel, 90h:12011**
Scheiderer, Claus *see* **Knebusch, Manfred, 90m:12005**
Stabakis, J. N. (*with* Kontolatou, A.) Commutative fields normed by a G-valuative order. **90a:12018**

12J15 Ordered fields

Craven, Thomas C. Approximation properties for orderings on $*$-fields. **90j:12019**
Fest, Markus (*with* Schröder, Martin) Ein nichtkommutativer konvexer Bewertungsring ohne konfinalen Schiefkörper. [A noncommutative convex valuation ring without a cofinal skew field] **90m:12013**
Kijima, Daiji (*with* Nishi, Mieo) The pseudo-convergent sets and the cuts of an ordered field. **90j:12020**
Nishi, Mieo *see* **Kijima, Daiji, 90j:12020**
Schröder, Martin *see* **Fest, Markus, 90m:12013**

Items with secondary classifications in 12J15

Boja, N. (*with* Dăianu, Dan) ★ Elemente algebrice şi topologice de teoria corpurilor. (Romanian) [Algebraic and topological elements of field theory] **90g:12001**
Chacron, M. C-valuations and normal C-orderings. **90i:16016**

Dăianu, Dan *see* **Boja, N., 90g:12001**
Dickmann, M. A. The model theory of chain-closed fields. **90i:03040**
— Algebra and model theory of chain fields: an overview. **90k:12008**
Knebusch, Manfred (*with* Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] **90m:12005**
Leung, Ka Hin Positive semidefinite forms over ordered skew fields. **90f:11027**
Scheiderer, Claus *see* **Knebusch, Manfred, 90m:12005**
Wolter, Helmut Orderings in exponential fields of term-defined functions. **90k:03064**
Zeng, Guang Xing Polynomials over real valuation rings with core. (Chinese) **90a:12005**

12J20 General valuation theory

Alexandru, Victor (*with* Popescu, Nicolae; Zaharescu, Alexandru) A theorem of characterization of residual transcendental extensions of a valuation. **90c:12011**
Briales Morales, E. Constructive theory of valuations. **90g:12010**
Cohn, P. M. Valuations on free fields. **90e:12021**
Iwakami, Tatsuo Valuations of a quasi-Pythagorean field. **90g:12011**
Kontolatou, A. *see* **Stabakis, J. N., 90a:12018**
Popescu, Nicolae *see* **Alexandru, Victor; et al., 90c:12011**
Stabakis, J. N. (*with* Kontolatou, A.) Commutative fields normed by a G-valuative order. **90a:12018**
Zaharescu, Alexandru *see* **Alexandru, Victor; et al., 90c:12011**

Items with secondary classifications in 12J20

Lenstra, H. W., Jr. (*with* Stevenhagen, Peter) Über das Fortsetzen von Bewertungen in vollständigen Körpern. [On the continuation of valuations in complete fields] **90j:12018**
Morandi, Pat The Henselization of a valued division algebra. **90h:12007**
Stevenhagen, Peter *see* **Lenstra, H. W., Jr., 90j:12018**

12J25 Non-Archimedean valued fields [see also 26E30, 30G05, 32D25, 46P05]

Bastos, G. G. Quasi-semi-valuations and groups of divisibility. **90g:12012**

Items with secondary classifications in 12J25

Escassut, Alain Derivative of analytic elements on infraconnected clopen sets. **90d:32028**
Hà Huy Khoái (*with* My Vinh Quang) On p-adic Nevanlinna theory. **90e:11153**
Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open subsets of an algebraic curve in rigid geometry] **90f:32030**
My Vinh Quang *see* **Hà Huy Khoái, 90e:11153**
Reversat, Marc Construction analytique (rigide) de variétés abéliennes. [Rigid analytic construction of abelian varieties] **90g:14028**

12J99 None of the above, but in this section

Shell, Niel Point at infinity. **90a:12019**

Items with secondary classifications in 12J99

Cohen, Jo-Ann (*with* Koh, Kwangil) A characterization of the p-adic integers. **90a:13041**
Kanzaki, Teruo Totally real commutative algebras. **90j:13014**
Koh, Kwangil *see* **Cohen, Jo-Ann, 90a:13041**

12Kxx Generalizations

12K05 Near-fields [see also 16A76]

Fuchs, Peter Rudolf (*with* Maxson, Carlton J.) Meromorphic products determining near-fields. **90e:12022**
— On pseudo-finite near-fields which have finite dimension over the centre. **90h:12014**
Grundhöfer, Theo (*with* Zassenhaus, H.) A criterion for infinite non-Dickson nearfields of dimension two. **90e:12023**
Kalhoff, Franz On order compatible places of near fields. **90a:12020**
Maxson, Carlton J. *see* **Fuchs, Peter Rudolf, 90e:12022**
Schulz, Klaus Ulrich Quantoren-Elimination bei Fastkörpern. [Quantifier elimination in nearfields] **90m:12014**
Wähling, Heinz ★ Theorie der Fastkörper. (German) [Theory of nearfields] **90e:12024**
Zassenhaus, H. *see* **Grundhöfer, Theo, 90e:12023**

Items with secondary classifications in 12K05

Bae, Chul Kon (*with* Park, June Won) Some characterizations of near-fields. **90i:16030**
Grundhöfer, Theo Sharply transitive linear groups and nearfields over p-adic fields. **90b:20039**
Park, June Won *see* **Bae, Chul Kon, 90i:16030**

12K99 None of the above, but in this section

Deretsky, Tatiana On existence of AIP neofields of odd order. **90j:12021**

Items with secondary classifications in 12K99

Biswas, R. Fuzzy fields and fuzzy linear spaces redefined. **90k:03050**
Cho, Jung Rae On n-groupoids defined on fields. **90k:20107**
Haukkanen, Pentti Some classes of quasi-fields having isomorphic additive and multiplicative groups. **90e:11012**

12Lxx Connections with logic

12L05 Decidability

Delon, Françoise (*with* Rouani, Yamina) Indécidabilité de corps de séries formelles. (English summary) [Undecidability of fields of formal power series] **90d:12006**
Pheidas, Thanases Hilbert's tenth problem for a class of rings of algebraic integers. **90b:12002**
Rouani, Yamina *see* **Delon, Françoise, 90d:12006**

Items with secondary classifications in 12L05

Ershov, Yu. L. RRC-fields with small absolute Galois groups. **90f:03016**
Künzi, Urs-Martin Corps multiplement pseudo-p-adiquement clos. (English summary) [Multiply pseudo-p-adically closed fields] **90k:12009**

12L10 Ultraproducts

Items with secondary classifications in 12L10

Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] **90d:52020**
Lipshitz, L. p-adic zeros of polynomials. **90d:11131**

12L12 Model theory

Bélair, L. (*with* van den Dries, Lou; Macintyre, Angus) Elementary equivalence and codimension in p-adic fields. **90b:12003**
Chatzidakis, Zoé An expansion of $\widetilde{\mathbf{F}}_p$. **90g:12013**
Delon, Françoise Model theory of Henselian valued fields. **90j:12022**
Dickmann, M. A. Algebra and model theory of chain fields: an overview. **90k:12008**
van den Dries, Lou *see* **Bélair, L.; et al., 90b:12003**
Künzi, Urs-Martin Corps multiplement pseudo-p-adiquement clos. (English summary) [Multiply pseudo-p-adically closed fields] **90k:12009**
Macintyre, Angus *see* **Bélair, L.; et al., 90b:12003**

Items with secondary classifications in 12L12

Bürger, Gerd The $\mathscr{L}^{<\omega}$-theory of the class of Archimedian real closed fields. **90i:03039**
Cegielski, Patrick La théorie des corps réels-clos inductifs est une extension conservative de l'arithmétique de Peano. (English summary) [The theory of inductive real-closed fields is a conservative extension of Peano arithmetic] **90m:03073**
Delon, Françoise Idéaux et types sur les corps séparablement clos. (English summary) [Ideals and types over separably closed fields] **90m:03067**
— Définissabilité avec paramètres extérieurs dans $\mathbf{Q}_p$ et $\mathbf{R}$. (English summary) [Definability with external parameters in $\mathbf{Q}_p$ and $\mathbf{R}$] **90d:03060**
Dickmann, M. A. The model theory of chain-closed fields. **90i:03040**
van den Dries, Lou *see* **Scowcroft, Philip, 90g:14010**
Dugas, Manfred (*with* Göbel, Rüdiger) Field extensions in L—a solution of C. U. Jensen's \$25 problem. **90g:12004**
Göbel, Rüdiger *see* **Dugas, Manfred, 90g:12004**
Koepke, Peter On the elimination of Malitz quantifiers over Archimedian real closed fields. **90k:03029**
Macintyre, Angus A Lefschetz principle for integral closures. (*see* **90d:03005**)
— (*with* Marker, David) Primes and their residue rings in models of open induction. **90g:03042**
Marker, David *see* **Macintyre, Angus, 90g:03042**
Scowcroft, Philip (*with* van den Dries, Lou) On the structure of semialgebraic sets over p-adic fields. **90g:14010**
Wilkie, Alex J. On the theory of the real exponential field. **90i:03042**
Wolter, Helmut Orderings in exponential fields of term-defined functions. **90k:03064**

12L15 Nonstandard arithmetic [see also 03H15]

Yasumoto, Masahiro Algebraic extensions in nonstandard models and Hilbert's irreducibility theorem. **90b:12004**

Items with secondary classifications in 12L15

Sari, Tewfik Perturbations d'objets algébriques; décomposition de Goze. [Perturbations of algebraic objects; the Goze decomposition] (*see* **90j:03116**)

12L99 None of the above, but in this section

Items with secondary classifications in 12L99

Berenstein, Carlos A. (*with* Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) **90f:32006**
Gay, Roger *see* **Berenstein, Carlos A.; et al., 90f:32006**
Hatzikiriakou, Kostas (*with* Simpson, Stephen G.) Countable valued fields in weak subsystems of second-order arithmetic. **90b:03089**
Simpson, Stephen G. *see* **Hatzikiriakou, Kostas, 90b:03089**
Yger, Alain *see* **Berenstein, Carlos A.; et al., 90f:32006**

13–XX Commutative rings and algebras {For the noncommutative case, see 16–XX.}

Bourbaki, N. ★ Commutative algebra. Chapters 1–7. **90a:13001**

13–01 Elementary exposition; textbooks

Matsumura, Hideyuki ★ Commutative ring theory. **90i:13001**
(Reid, Miles) *see* **Matsumura, Hideyuki, 90i:13001**

Items with secondary classifications in 13–01

Nagao, Hirosi ★ Daisugaku. (Japanese) [Algebra] **90h:00001**
(Reid, Miles) *see* **Shafarevich, I. R., 90k:00010**
Robbiano, Lorenzo Introduction to the theory of Gröbner bases. **90a:13003**
Shafarevich, I. R. ★ Noţiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] **90k:00009**
— ★ Algebra. I. **90k:00010**
(Spircu, T.) *see* **Shafarevich, I. R., 90k:00009**
Sweedler, Moss Groebner bases. **90g:13004**

13–02 Advanced exposition (research surveys, monographs, etc.)

Glaz, Sarah ★ Commutative coherent rings. **90f:13001**

Items with secondary classifications in 13–02

Bruns, Winfried (*with* Vetter, Udo) ★ Determinantal rings. **90f:14032**
Vetter, Udo *see* **Bruns, Winfried, 90f:14032**

13–04 Explicit machine computation and programs (not the theory of computation or programming)

Bayer, D. A. (*with* Morrison, Ian) Standard bases and geometric invariant theory. I. Initial ideals and state polytopes. **90e:13001**
Caniglia, Léandro (*with* Galligo, André; Heintz, Joos) Some new effectivity bounds in computational geometry. **90j:13001**
Galligo, André *see* **Caniglia, Léandro; et al., 90j:13001**
Heintz, Joos *see* **Caniglia, Léandro; et al., 90j:13001**
Kapur, Deepak (*with* Madlener, Klaus) A completion procedure for computing a canonical basis for a k-subalgebra. **90g:13001**
Madlener, Klaus *see* **Kapur, Deepak, 90g:13001**
Meinhold, Ute Algorithmische Aspekte zur Theorie der Gröbner-Basen. [Algorithmic aspects of the theory of Gröbner bases] **90b:13001**
Morrison, Ian *see* **Bayer, D. A., 90e:13001**
Pauer, Franz (*with* Pfeifhofer, Marlene) The theory of Gröbner bases. **90a:13002**
Pfeifhofer, Marlene *see* **Pauer, Franz, 90a:13002**
Robbiano, Lorenzo Introduction to the theory of Gröbner bases. **90a:13003**
Shannon, David (*with* Sweedler, Moss) Using Gröbner bases to determine algebra membership, split surjective algebra homomorphisms determine birational equivalence. **90e:13002**
Shtokhamer, R. Lifting canonical algorithms from a ring R to the ring $R[x]$. **90g:13002**
Sturmfels, Bernd (*with* White, Neil) Gröbner bases and invariant theory. **90g:13003**
Sweedler, Moss Groebner bases. **90g:13004**
— *see also* **Shannon, David, 90e:13002**
White, Neil *see* **Sturmfels, Bernd, 90g:13003**

Items with secondary classifications in 13–04

Bayer, D. A. (*with* Stillman, Michael) On the complexity of computing syzygies. **90g:68071**
Ferro, Alfredo (*with* Gallo, Giovanni) Gröbner bases, Ritt's algorithm and decision procedures for algebraic theories. (*see* **90d:94001**)
Gallo, Giovanni *see* **Ferro, Alfredo, (90d:94001)**
Gianni, Patrizia (*with* Trager, Barry; Zacharias, Gail) Gröbner bases and primary decomposition of polynomial ideals. **90f:68091**
Hogan, Robert W. *see* **Kobayashi, Hidetsune; et al., (90i:00005)**
Kobayashi, Hidetsune (*with* Moritsugu, Shuichi; Hogan, Robert W.) Solving systems of algebraic equations. (*see* **90i:00005**)
Kredel, Heinz (*with* Weispfenning, Volker) Computing dimension and independent sets for polynomial ideals. **90c:68038**
Matoušek, Jiří On-line computation of convolutions. (Not in MR)
Mora, T. (*with* Robbiano, Lorenzo) The Gröbner fan of an ideal. **90d:13004**
Moritsugu, Shuichi *see* **Kobayashi, Hidetsune; et al., (90i:00005)**
Pan, Luquan On the D-bases of polynomial ideals over principal ideal domains. **90g:13006**
Robbiano, Lorenzo Computer and commutative algebra. **90h:68067**
— *see also* **Mora, T., 90d:13004**
Stillman, Michael *see* **Bayer, D. A., 90g:68071**
Sturmfels, Bernd Computing final polynomials and final syzygies using Buchberger's Gröbner bases method. **90d:13019**
Trager, Barry *see* **Gianni, Patrizia; et al., 90f:68091**
Traverso, Carlo Gröbner trace algorithms. (*see* **90i:00005**)
Weispfenning, Volker *see* **Kredel, Heinz, 90c:68038**
Winkler, Franz A p-adic approach to the computation of Gröbner bases. **90m:68071**
Zacharias, Gail *see* **Gianni, Patrizia; et al., 90f:68091**

13–06 Proceedings, conferences, etc.

(Hochster, M.) *see* **Commutative algebra, 90d:13001**
(Huneke, C.) *see* **Commutative algebra, 90d:13001**
(Sally, Judith D.) *see* **Commutative algebra, 90d:13001**
(Samuel, Pierre) *see* **Colloquium: Samuel, Pierre, 90j:13002**

Items listed otherwise than by author

Berkeley, CA ★ Commutative algebra. **90d:13001**
Colloquium:
  Samuel, Pierre ★ Colloquium in honor of Pierre Samuel. **90j:13002**
Commutative algebra ★ Commutative algebra. **90d:13001**
Microprogram:
  Commutative Algebra ★ Commutative algebra. **90d:13001**
Orsay ★ Colloquium in honor of Pierre Samuel. **90j:13002**

Items with secondary classifications in 13–06

(Hijikata, Hiroaki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Hironaka, Heisuke) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Maruyama, Masaki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Matsumura, Hideyuki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Miyanishi, Masayoshi) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Nagata, Masayoshi) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Oda, Tadao) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**
(Ueno, Kenji) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

Items listed otherwise than by author

Algebraic geometry and commutative algebra ★ Algebraic geometry and commutative algebra. Vol. I. **90b:14001a**
— ★ Algebraic geometry and commutative algebra. Vol. II. **90b:14001b**

13Axx General commutative ring theory

13A05 Divisibility

Items with secondary classifications in 13A05

Anderson, D. D. (*with* Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. **90k:13015**
Picavet-L'Hermite, Martine Ordres de Gorenstein. [Gorenstein orders] **90a:13004**
Zafrullah, Muhammad *see* **Anderson, D. D., 90k:13015**

13A10 Radical theory

Items with secondary classifications in 13A10

Beĭdar, K. I. The intersection property for radicals. **90m:16012**
Lu, Chin-Pi M-radicals of submodules in modules. **90h:13010**
— M-radicals of submodules in modules. **90g:13025**

13A15 Ideals

Al-Ezeh, H. Pure ideals in commutative reduced Gel′fand rings with unity. **90h:13001**
Amasaki, Mutsumi Application of the generalized Weierstrass preparation theorem to the study of homogeneous ideals. **90d:13002**
Anderson, D. D. (*with* Mahaney, L. A.) Generating sets for ideals. **90j:13003**
Camillo, Victor Commutative rings whose principal ideals are annihilators. **90e:13003**
Carbonne, P. Groupe des classes de diviseurs des algèbres graduées normales. [The divisor-class group of normal graded algebras] **90m:13001**
Carrà Ferro, Giuseppa Gröbner bases and Hilbert schemes. I. **90g:13005**
Cho, Yong-Hwan On the ring $R(X)$. **90h:13002**
Heinzer, William (*with* Papick, Ira J.) Remarks on a remark of Kaplansky. **90b:13002**
Jeyaraj, I. (*with* Ratliff, L. J., Jr.) Two notes on asymptotic prime divisors. **90d:13003**
Mahaney, L. A. *see* **Anderson, D. D., 90j:13003**
Matsuda, Ryûki Notes on Anderson-Anderson-Johnson questions and Bouvier questions. **90m:13002**
Mirbagheri, Ahmad (*with* Ratliff, L. J., Jr.; Rush, D. E.) Superficial sets of elements for sets of ideals. **90m:13003**
Mora, T. (*with* Robbiano, Lorenzo) The Gröbner fan of an ideal. **90d:13004**
Pan, Luquan On the D-bases of polynomial ideals over principal ideal domains. **90g:13006**
Papick, Ira J. *see* **Heinzer, William, 90b:13002**
Picavet-L'Hermite, Martine Ordres de Gorenstein. [Gorenstein orders] **90a:13004**
Ratliff, L. J., Jr. *see* **Jeyaraj, I., 90d:13003** *and* **Mirbagheri, Ahmad; et al., 90m:13003**
Robbiano, Lorenzo *see* **Mora, T., 90d:13004**
Rush, D. E. *see* **Mirbagheri, Ahmad; et al., 90m:13003**
Sally, Judith D. One-fibered ideals. **90h:13003**

Items with secondary classifications in 13A15

Abhyankar, Shreeram S. (*with* Li, Wei[1]) On the Jacobian conjecture: a new approach via Gröbner bases. **90i:13012**
Anderson, D. D. (*with* Kang, Byung Gyun) Pseudo-Dedekind domains and divisorial ideals in $R[X]_T$. **90j:13015**
Haouat, Youssef Dimension et spectre des anneaux de la forme $A + M$. [Dimension and spectrum of rings of the form $A + M$] **90a:13005**
Játem, José Idealtransformierte von multiplikativen Systemen von Idealen und deren Endlichkeit. [Ideal transforms of multiplicative systems of ideals and their finiteness] **90j:13010**
Kang, Byung Gyun *see* **Anderson, D. D., 90j:13015**
Kapur, Deepak (*with* Madlener, Klaus) A completion procedure for computing a canonical basis for a k-subalgebra. **90g:13001**
Katz, Daniel (*with* McAdam, Stephen) Two asymptotic functions. **90c:13015**
Kredel, Heinz (*with* Weispfenning, Volker) Computing dimension and independent sets for polynomial ideals. **90c:68038**
Li, Wei[1] *see* **Abhyankar, Shreeram S., 90i:13012**
Logar, Alessandro A computational proof of the Noether normalization lemma. **90j:13017**
Madlener, Klaus *see* **Kapur, Deepak, 90g:13001**
McAdam, Stephen *see* **Katz, Daniel, 90c:13015**

Möller, H. Michael On the construction of Gröbner bases using syzygies. **90e:13008**

Niefield, Susan B. *see* **Rosenthal, Kimmo I., 90g:06017**

Pervine, Robert The behavior of regular sequences under passage from R to R/I. **90k:13008**

Rees, David ★ Lectures on the asymptotic theory of ideals. **90d:13012**

Rosenthal, Kimmo I. (*with* Niefield, Susan B.) Connections between ideal theory and the theory of locales. **90g:06017**

Shtokhamer, R. Lifting canonical algorithms from a ring R to the ring $R[x]$. **90g:13002**

Sweedler, Moss Groebner bases. **90g:13004**

Weispfenning, Volker *see* **Kredel, Heinz, 90c:68038**

13A17 Prime and primary ideals and their generalizations

Anderson, David F. (*with* Dobbs, David E.) Pairs of rings with the same prime ideals. II. **90c:13001**

Dobbs, David E. *see* **Anderson, David F., 90c:13001**

Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren D.) The prime spectra of subalgebras of affine algebras and their localizations. **90b:13003**

Haouat, Youssef Dimension et spectre des anneaux de la forme $A+M$. [Dimension and spectrum of rings of the form $A+M$] **90a:13005**

Huckaba, Sam Symbolic powers of prime ideals with applications to hypersurface rings. **90e:13004**

McAdam, Stephen ★ Primes associated to an ideal. **90m:13004**

— Irrelevant prime divisors. **90j:13004**

Nashier, Budh *see* **Gilmer, Robert; et al., 90b:13003**

Nichols, Warren D. *see* **Gilmer, Robert; et al., 90b:13003**

Visweswaran, S. Laskerian pairs. **90i:13002**

Weston, Dana Generating absolute prime ideals. **90h:13004**

Items listed otherwise than by author

Contemporary Mathematics *see* **McAdam, Stephen, 90m:13004**

Items with secondary classifications in 13A17

Abhyankar, Shreeram S. (*with* Kulkarni, Devadatta M.) On Hilbertian ideals. **90c:14032**

Anderson, D. D. (*with* Zafrullah, Muhammad) Weakly factorial domains and groups of divisibility. **90k:13015**

Bommer, Roland M. Ideals differential under high order derivations. **90k:13024**

Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] **90a:13007**

Diers, Yves Locally Hilbert categories. **90e:18009**

Gianni, Patrizia (*with* Trager, Barry; Zacharias, Gail) Gröbner bases and primary decomposition of polynomial ideals. **90f:68091**

Heinzer, William (*with* Wiegand, Sylvia) Prime ideals in two-dimensional polynomial rings. **90b:13010**

Houston, Evan (*with* Zafrullah, Muhammad) On t-invertibility. II. **90i:13019**

Jeyaraj, I. (*with* Ratliff, L. J., Jr.) Two notes on asymptotic prime divisors. **90d:13003**

Kanemitsu, Mitsuo (*with* Yoshida, Ken-ichi) Conductor ideals and embedded primary components of principal ideals. **90d:13010**

Kang, Byung Gyun Some questions about Prüfer v-multiplication domains. **90a:13033**

— On the converse of a well-known fact about Krull domains. **90g:13033**

Katz, Daniel (*with* McAdam, Stephen; Ratliff, L. J., Jr.) Prime divisors and divisorial ideals. **90g:13030**

Kulkarni, Devadatta M. *see* **Abhyankar, Shreeram S., 90c:14032**

Larson, Suzanne Minimal convex extensions and intersections of primary l-ideals in f-rings. **90i:06023**

McAdam, Stephen *see* **Katz, Daniel; et al., 90g:13030**

Melkersson, Leif On asymptotic stability for sets of prime ideals connected with the powers of an ideal. **90k:13014**

Okabe, Akira (*with* Yoshida, Ken-ichi) Note on strong pseudo-valuation domains. **90e:13005**

Ratliff, L. J., Jr. *see* **Jeyaraj, I., 90d:13003** *and* **Katz, Daniel; et al., 90g:13030**

Trager, Barry *see* **Gianni, Patrizia; et al., 90f:68091**

Vilhelm, Václav Primary decompositions. (Czech. English and Russian summaries) **90g:06024**

Wiegand, Sylvia *see* **Heinzer, William, 90b:13010**

Yoshida, Ken-ichi *see* **Kanemitsu, Mitsuo, 90d:13010** *and* **Okabe, Akira, 90e:13005**

Zacharias, Gail *see* **Gianni, Patrizia; et al., 90f:68091**

Zafrullah, Muhammad *see* **Houston, Evan, 90i:13019** *and* **Anderson, D. D., 90k:13015**

Zöschinger, Helmut Über koassoziierte Primideale. [On co-associated prime ideals] **90k:13004**

13A18 Valuations and their generalizations

Alajbegović, Jusuf (*with* Zanardo, Paolo) Uniserial modules over Manis rings. **90g:13007**

Dobbs, David E. Coherent pseudo-valuation domains have Noetherian completions. **90g:13008**

Dugas, Manfred On modules over valuation rings with a nil radical. **90f:13002**

Green, Barry W. Immediate extensions of valuation rings. **90g:13009**

Okabe, Akira (*with* Yoshida, Ken-ichi) Note on strong pseudo-valuation domains. **90e:13005**

Rees, David Izumi's theorem. **90g:13010**

Rhodes, C. P. L. On valuation subalgebras and their centres. **90h:13005**

Yoshida, Ken-ichi *see* **Okabe, Akira, 90e:13005**

Zanardo, Paolo *see* **Alajbegović, Jusuf, 90g:13007**

Items with secondary classifications in 13A18

Alexandru, Victor (*with* Popescu, Nicolae; Zaharescu, Alexandru) A theorem of characterization of residual transcendental extensions of a valuation. **90c:12011**

Berman, S. D. (*with* Vishnyakova, N. I.) Locally cyclic modules over a valuation ring. **90g:13020**

Brundu, Michela (*with* Rossi, Fabio) On the computation of generalized standard bases. **90f:68097**

Gräter, Joachim An integrally closed ring which is not the intersection of valuation rings. **90a:13011**

Herrera Govantes, Francisco Javier Zariski saturation of monomial rings, and their valuation semigroups. (Spanish. English summary) **90a:13036**

Miola, A. (*with* Mora, T.) Constructive lifting in graded structures: a unified view of Buchberger and Hensel methods. **90f:68096**

Mora, T. *see* **Miola, A., 90f:68096**

Popescu, Nicolae *see* **Alexandru, Victor; et al., 90c:12011**

Rossi, Fabio *see* **Brundu, Michela, 90f:68097**

Salce, Luigi (*with* Zanardo, Paolo) Finitely generated modules over valuation domains. **90g:13016**

Sally, Judith D. One-fibered ideals. **90h:13003**

Vishnyakova, N. I. *see* **Berman, S. D., 90g:13020**

Zaharescu, Alexandru *see* **Alexandru, Victor; et al., 90c:12011**

Zanardo, Paolo Valuation domains of bounded module type. **90h:13014**

— *see also* **Salce, Luigi, 90g:13016**

13A20 Brauer groups [see also 12Gxx, 16A16]

Beattie, Margaret (*with* Caenepeel, S.) The Brauer-Long group of $\mathbf{Z}/p^t\mathbf{Z}$-dimodule algebras. **90j:13005**

Caenepeel, S. (*with* Van Oystaeyen, F.) ★ Brauer groups and the cohomology of graded rings. **90c:13002**

— *see also* **Beattie, Margaret, 90j:13005**

Duskin, John W. The Azumaya complex of a commutative ring. **90c:13003**

Ford, Timothy J. (*with* Saltman, David) Division algebras over Henselian surfaces. **90k:13001**

— On the Brauer group of $k[x_1,\cdots,x_n,1/f]$. **90d:13005**

Lee, Heisook Brauer group over a Krull domain. **90k:13002**

Saltman, David *see* **Ford, Timothy J., 90k:13001**

Ulbrich, K.-H. On the Teichmüller cocycle map. **90h:13006**

Van Oystaeyen, F. *see* **Caenepeel, S., 90c:13002**

Wyler, Thomas À propos d'un lemme de K. Kato sur le groupe de Brauer en caractéristique p. [Concerning a lemma of K. Kato on the Brauer group in characteristic p] **90j:13006**

Items with secondary classifications in 13A20

Bogomolov, F. A. Brauer groups of the fields of invariants of algebraic groups. **90k:14008**

Hales, A. W. Abelian groups as Brauer and character groups. **90j:12010**

Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. **90d:14022**

Nelis, P. (*with* Van Oystaeyen, F.) Ray symmetry in projective representations and subgroups of the Brauer group. **90j:16009**

Riehm, Carl R. The linear and quadratic Schur subgroups over the S-integers of a number field. **90a:11146**

Roux, Bernard Sur le groupe de Brauer d'un corps local à corps résiduel imparfait. [On the Brauer group of a local field with nonperfect residue field] **90e:12016**

Sonn, Jack Central extensions of S_n as Galois groups via trinomials. **90i:11132**

Van Oystaeyen, F. *see* **Nelis, P., 90j:16009**

13A99 None of the above, but in this section

Aharoni, Ron The topological dimension of the spectrum of a commutative ring. **90b:13004**

Dong, Xue Dong Weakly primary rings. (Chinese. English summary) **90e:13006**

Dragomir, S. S. Congruences and inequalities of Chebyshev type. **90c:13004**

Kleinert, Ernst Some remarks on the Chinese remainder theorem. **90i:13003**

Picavet, Gabriel Factorisations de morphismes d'anneaux commutatifs. [Factorizations of morphisms of commutative rings] **90a:13006**

Items with secondary classifications in 13A99

Arnol'd, V. I. A-graded algebras and continued fractions. **90h:32025**

Jayaram, C. (*with* Mannepalli, V. L.) Noetherian regular rings. **90g:13029**

Johnson, Johnny A. (*with* Taylor, Monty B.) Characterizations of quasi-cyclic submodules. **90j:13011**

Mannepalli, V. L. *see* **Jayaram, C., 90g:13029**

Taylor, Monty B. *see* **Johnson, Johnny A., 90j:13011**

Ziplies, Dieter Abelianizing the divided powers algebra of an algebra. **90j:16003**

13Bxx Ring extensions and related topics

13B02 Extension theory

Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] **90a:13007**

Items with secondary classifications in 13B02

Green, Barry W. Immediate extensions of valuation rings. **90g:13009**

Oda, Susumu (*with* Yoshida, Ken-ichi) Anti-integral extensions of Noetherian domains. **90d:13011**

Yoshida, Ken-ichi *see* **Oda, Susumu, 90d:13011**

13B05 Galois theory

Baba, Kiyoshi Examples of Krull domains in Galois descent theory. I. **90d:13006**

— Separability and pseudo-reflections of intermediate integral domains. **90m:13005**

Borevich, A. Z. An embedding problem for rings and a compatibility condition. (Russian) (*see* **90h:20005**)

Greither, Cornelius (*with* Miranda, Rick) Galois extensions of prime degree. **90k:13003**

— (*with* Harrison, D. K.) On constructions similar to the Burnside ring for commutative rings and profinite groups. **90d:13007**
Harrison, D. K. *see* **Greither, Cornelius, 90d:13007**
Micali, A. (*with* Paques, A.) Sur l'existence d'élément primitif et base normale. [On the existence of a primitive element and a normal basis] **90b:13005**
— (*with* Paques, A.; Solecki, A.) Extensions cubiques à base normale. [Cubic extensions with normal basis] **90i:13004**
Miranda, Rick *see* **Greither, Cornelius, 90k:13003**
Paques, A. *see* **Micali, A., 90b:13005** *and* **90i:13004**
Solecki, A. *see* **Micali, A.; et al., 90i:13004**

13B10 Automorphisms and derivations

Brezuleanu, A. (*with* Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. **90b:13006**
Furuya, Mamoru (*with* Niitsuma, Hiroshi) Notes on extensions of derivations. **90i:13005**
Goodearl, K. R. (*with* Lenagan, T. H.) Constructing bad Noetherian local domains using derivations. **90g:13011**
Karakaş, H. İbrahim The R-automorphisms of $R[x]$. (Turkish summary) **90f:13003**
Lanski, Charles Transformations satisfying homogeneous identities. **90m:13006**
Lenagan, T. H. *see* **Goodearl, K. R., 90g:13011**
Nakai, Yoshikazu *see* **Nowicki, Andrzej Władysław, 90b:13007**
Niitsuma, Hiroshi Jacobian matrix and p-basis. **90f:13004**
— *see also* **Furuya, Mamoru, 90i:13005**
Nowicki, Andrzej Władysław (*with* Nakai, Yoshikazu) Correction to: "On Appelgate-Onishi's lemmas" [J. Pure Appl. Algebra **51** (1988), no. 3, 305–310; MR 89h:13007]. **90b:13007**
Radu, N. *see* **Brezuleanu, A., 90b:13006**
Restuccia, Gaetana A few theorems on strong integrability of derivations. (Italian summary) **90g:13012**
Smith, Martha K. Stably tame automorphisms. **90f:13005**
Suzuki, Satoshi On extensions of higher derivations for algebraic extensions of fields of positive characteristics. **90c:13005**
Wright, David Lee The tree formulas for reversion of power series. **90d:13008**

Items with secondary classifications in 13B10

Abu-Saymeh, Sadi Higher derivations of algebraic function fields. **90c:12007**
Chądzyński, Jacek *see* **Charzyński, Zygmunt; et al., 90a:12004**
Charzyński, Zygmunt (*with* Chądzyński, Jacek; Skibiński, Przemysław) A contribution to Keller's Jacobian conjecture. II. **90a:12004**
Goodearl, K. R. Global dimension of differential operator rings. IV. Simple modules. **90e:16041**
Li, Wei[1] On a problem about face polynomials. **90k:14009**
— Remarks on rings of constants of derivations. **90a:13042**
Luo, Jian Gang Torsion theories over N-rings. **90c:13014**
Miyanishi, Masayoshi (*with* Robbiano, Lorenzo; Wang, Stuart Sui Sheng) A brief proof of Jacobian hypothesis implies flatness. **90k:13018**
Nagata, Masayoshi Two-dimensional Jacobian conjecture. **90k:14010a**
— Some remarks on the two-dimensional Jacobian conjecture. **90k:14010b**
Narmaniya, V. G. A remark on derivations. (Russian. English and Georgian summaries) **90a:46127**
Platte, Erich ★ Differentielle Methoden in der lokalen Algebra. (German) [Differential methods in local algebra] **90a:14022**
Popov, V. L. Automorphism groups of polynomial algebras. (Russian) **90m:14041**
Robbiano, Lorenzo *see* **Miyanishi, Masayoshi; et al., 90k:13018**
Seibt, Peter Differential completions and differentially simple algebras. **90g:13039**
Skibiński, Przemysław *see* **Charzyński, Zygmunt; et al., 90a:12004**
Tyc, Andrzej On F-integrable derivations of the ring of formal power series in characteristic $p>0$. **90k:14050**
Wang, Stuart Sui Sheng *see* **Miyanishi, Masayoshi; et al., 90k:13018**

13B15 Ramification theory

Beale, Stephen (*with* Harrison, D. K.) Prime-like subobjects of a profinite group. **90a:13008**
Endo, Shizuo On rings of invariants of finite linear groups. **90f:13006**
Harrison, D. K. *see* **Beale, Stephen, 90a:13008**

Items with secondary classifications in 13B15

Gibson, Gavin J. Seminormality and F-purity in local rings. **90j:13007**
Greither, Cornelius Unramified Kummer extensions of prime power degree. **90i:11139**

13B20 Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)

Anderson, David F. Root closure in integral domains. II. **90b:13008**
Barucci, Valentina A Lipman's type construction, glueings and complete integral closure. **90a:13009**
Cahen, Paul-Jean Anneaux presque integralement clos. (English summary) [Almost integrally closed rings] **90a:13010**
Dichi, Henri Integral dependence over a filtration. **90d:13009**
Gibson, Gavin J. Seminormality and F-purity in local rings. **90j:13007**
Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren D.) On the heights of prime ideals under integral extensions. **90c:13006**
Gräter, Joachim An integrally closed ring which is not the intersection of valuation rings. **90a:13011**
Hamann, Eloise Some transcendence degree questions. **90h:13007**
Itoh, Shiroh Integral closures of ideals generated by regular sequences. **90g:13013**
Kanemitsu, Mitsuo (*with* Yoshida, Ken-ichi) Conductor ideals and embedded primary components of principal ideals. **90d:13010**
Manchanda, Pammy *see* **Singh, Surjit**[3]**, 90j:13008**
Nagano, Yoshihiko Subrings of integral closure. II. (Japanese summary) **90a:13012a**
— Correction to: "Subrings of integral closure. II". **90a:13012b**
Nashier, Budh *see* **Gilmer, Robert; et al., 90c:13006**
Nichols, Warren D. *see* **Gilmer, Robert; et al., 90c:13006**
Oda, Susumu (*with* Yoshida, Ken-ichi) Anti-integral extensions of Noetherian domains. **90d:13011**
Onoda, Nobuharu A remark on spots. **90b:13009**
Singh, Surjit[3] (*with* Manchanda, Pammy) On complete integral closure of G-domain. **90j:13008**
Villamayor h., Orlando Eugenio On class groups and normality of Rees rings. **90e:13007**
Yoshida, Ken-ichi *see* **Kanemitsu, Mitsuo, 90d:13010** *and* **Oda, Susumu, 90d:13011**

Items with secondary classifications in 13B20

Brezuleanu, A. (*with* Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. **90b:13006**
Cho, Yong-Hwan On the ring $R(X)$. **90h:13002**
Diers, Yves Codisjunctors and singular epimorphisms in the category of commutative rings. **90a:14003**
Gabelli, Stefania Completely integrally closed domains and t-ideals. (Italian summary) **90h:13019**
Goodearl, K. R. (*with* Lenagan, T. H.) Constructing bad Noetherian local domains using derivations. **90g:13011**
Gottlieb, Christian On condensed Noetherian domains whose integral closures are discrete valuation rings. **90e:13019**
Huneke, C. Complete ideals in two-dimensional regular local rings. **90i:13020**
Jeremías López, Ana ★ Sobre la propiedad de extension y el criterio de normalidad de Krull-Serre. (Spanish) [The extension property and the Krull-Serre normality criterion] **90b:14007**
Lenagan, T. H. *see* **Goodearl, K. R., 90g:13011**
Lipman, Joseph On complete ideals in regular local rings. **90g:14003**
Macoosh, R. (*with* Raphael, R.) Totally integrally closed rings of continuous functions and rings of quotients. **90k:54024**
Nagata, Masayoshi Two-dimensional Jacobian conjecture. **90k:14010a**
— Some remarks on the two-dimensional Jacobian conjecture. **90k:14010b**
Radu, N. *see* **Brezuleanu, A., 90b:13006**
Raphael, R. *see* **Macoosh, R., 90k:54024**
Rees, David ★ Lectures on the asymptotic theory of ideals. **90d:13012**
Tanimoto, Hiroshi Root closedness of Z[$\sqrt[n]{m}$]. **90j:11108**
Wiegand, Roger Picard groups of singular affine curves over a perfect field. **90c:14005**

13B25 Polynomials over commutative rings

Anderson, David F. (*with* Dobbs, David E.; Fontana, Marco) On treed Nagata rings. **90j:13009**
Andruskiewitsch, Nicolás Sur les algèbres de polynômes graduées. (English summary) [On graded polynomial algebras] **90a:13013**
Dobbs, David E. *see* **Anderson, David F.; et al., 90j:13009**
Fontana, Marco *see* **Anderson, David F.; et al., 90j:13009**
Golod, E. S. Standard bases and homology. **90a:13014**
Haouat, Youssef Polynômes à valeurs entières et à coefficients sur une suite croissante d'anneaux. [Integer-valued polynomials with coefficients in an increasing sequence of rings] **90a:13015**
Heinzer, William (*with* Wiegand, Sylvia) Prime ideals in two-dimensional polynomial rings. **90b:13010**
Karcanias, N. System-theoretic characterisations of the greatest common divisor of a set of polynomials. **90m:13007**
Lucas, Thomas G. Root closure and $R[X]$. **90h:13008**
Möller, H. Michael On the construction of Gröbner bases using syzygies. **90e:13008**
Prószyński, Andrzej Forms and mappings. III. Regular m-applications. **90m:13008**
— Equationally definable functors and polynomial mappings. **90c:13007**
Shiffman, Bernard Degree bounds for the division problem in polynomial ideals. **90h:13009**
Wiegand, Sylvia *see* **Heinzer, William, 90b:13010**

Items with secondary classifications in 13B25

Alonso, M. E. (*with* Luengo, I.; Raimondo, M.) An algorithm on quasi-ordinary polynomials. **90j:12004**
Bayer, D. A. (*with* Morrison, Ian) Standard bases and geometric invariant theory. I. Initial ideals and state polytopes. **90e:13001**
— (*with* Stillman, Michael) On the complexity of computing syzygies. **90g:68071**
Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] **90a:13007**
Caniglia, Léandro (*with* Galligo, André; Heintz, Joos) Borne simple exponentielle pour les degrés dans le théorème des zéros sur un corps de caractéristique quelconque. (English summary) [Exponential simple bound for the degrees in the Nullstellensatz on a field of any characteristic] **90c:12002**
Carrà Ferro, Giuseppa Gröbner bases and Hilbert schemes. I. **90g:13005**
Eigenthaler, G. (*with* Nöbauer, Wilfried; Wiesenbauer, J.) Über Halbgruppen vertauschbarer Polynome. [On semigroups of commuting polynomials] **90b:11131**
Galligo, André *see* **Caniglia, Léandro; et al., 90c:12002**
Gilmer, Robert (*with* Heinzer, William; Lantz, David; Smith, William W.) The ring of integer-valued polynomials of a Dedekind domain. **90h:13017**
Haouat, Youssef Dimension et spectre des anneaux de la forme $A+M$. [Dimension and spectrum of rings of the form $A+M$] **90a:13005**
Heintz, Joos *see* **Caniglia, Léandro; et al., 90c:12002**
Heinzer, William *see* **Gilmer, Robert; et al., 90h:13017**
Kapur, Deepak (*with* Madlener, Klaus) A completion procedure for computing a canonical basis for a k-subalgebra. **90g:13001**
Karakaş, H. İbrahim The R-automorphisms of $R[x]$. (Turkish summary) **90f:13003**
Lantz, David *see* **Gilmer, Robert; et al., 90h:13017**

Luengo, I. *see* **Alonso, M. E.; et al., 90j:12004**
Madlener, Klaus *see* **Kapur, Deepak, 90g:13001**
Morrison, Ian *see* **Bayer, D. A., 90e:13001**
Nöbauer, Wilfried *see* **Eigenthaler, G.; et al., 90b:11131**
Pan, Luquan On the D-bases of polynomial ideals over principal ideal domains. **90g:13006**
Raimondo, M. *see* **Alonso, M. E.; et al., 90j:12004**
Robbiano, Lorenzo Introduction to the theory of Gröbner bases. **90a:13003**
Shannon, David (*with* Sweedler, Moss) Using Gröbner bases to determine algebra membership, split surjective algebra homomorphisms determine birational equivalence. **90e:13002**
Smith, William W. *see* **Gilmer, Robert; et al., 90h:13017**
Stillman, Michael *see* **Bayer, D. A., 90g:68071**
Sweedler, Moss *see* **Shannon, David, 90e:13002**
Wiesenbauer, J. *see* **Eigenthaler, G.; et al., 90b:11131**

13B30 Quotients and localization

Items with secondary classifications in 13B30

Byun, H. Globalization of local epimorphisms. **90a:13026**
Játem, José Idealtransformierte von multiplikativen Systemen von Idealen und deren Endlichkeit. [Ideal transforms of multiplicative systems of ideals and their finiteness] **90j:13010**
Macoosh, R. (*with* Raphael, R.) Totally integrally closed rings of continuous functions and rings of quotients. **90k:54024**
Raphael, R. *see* **Macoosh, R., 90k:54024**
Youssef, Louis Sur les théorèmes d'inversibilité de Kaplansky. [On Kaplansky's invertibility theorems] **90g:13031**

13B35 Completions

Items with secondary classifications in 13B35

Dobbs, David E. Coherent pseudo-valuation domains have Noetherian completions. **90g:13008**
Rees, David Izumi's theorem. **90g:13010**

13B99 None of the above, but in this section

Dobbs, David E. On treed overrings and going-down domains. (Italian summary) **90c:13008**
Gilmer, Robert (*with* Heinzer, William) On Pic($D[\alpha]$) for a principal ideal domain D. **90c:13009**
Heinzer, William *see* **Gilmer, Robert, 90c:13009**
Huneke, C. (*with* Simis, Aron; Vasconcelos, W. V.) Reduced normal cones are domains. **90c:13010**
Okon, J. S. (*with* Ratliff, L. J., Jr.) Filtrations, closure operations and prime divisors. **90a:13016**
Ratliff, L. J., Jr. *see* **Okon, J. S., 90a:13016**
Simis, Aron *see* **Huneke, C.; et al., 90c:13010**
Vasconcelos, W. V. *see* **Huneke, C.; et al., 90c:13010**

Items with secondary classifications in 13B99

Dobbs, David E. A note on universally going-down. **90c:13022**
Hamann, Eloise Some transcendence degree questions. **90h:13007**
Kunz, Ernst (*with* Waldi, Rolf) ★ Regular differential forms. **90a:14021**
Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. **90h:14036**
Visweswaran, S. Laskerian pairs. **90i:13002**
Waldi, Rolf *see* **Kunz, Ernst, 90a:14021**

Items listed otherwise than by author

Contemporary Mathematics *see* **Kunz, Ernst, 90a:14021**

13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

Al-Hashimi, B. *see* **Naoum, A. G.; et al., 90f:13010**
Auslander, Maurice (*with* Reiten, Idun) Cohen-Macaulay modules for graded Cohen-Macaulay rings and their completions. **90g:13014**
Backelin, Jörgen (*with* Herzog, Jürgen) On Ulrich-modules over hypersurface rings. **90i:13006**
Becker, Thomas (*with* Fuchs, László^1; Shelah, Saharon) Whitehead modules over domains. **90a:13017**
Bishop, Wayne (*with* Petro, J. W.; Ratliff, L. J., Jr.; Rush, D. E.) Note on Noetherian filtrations. **90b:13011**
Duncan, A. J. (*with* O'Carroll, L.) A full uniform Artin-Rees theorem. **90c:13011**
Facchini, Alberto Divisible modules over integral domains. **90a:13018**
— Simple divisible modules over integral domains. **90f:13007**
Fuchs, László^1 (*with* Salce, Luigi) Polyserial modules over valuation domains. **90c:13012**
— Some applications of abelian group theory to modules. **90e:13009**
— *see also* **Becker, Thomas; et al., 90a:13017**
Guralnick, R. (*with* Levy, Lawrence S.; Warfield, Robert B., Jr.) Cancellation counterexamples in Krull dimension 1. **90i:13007**
Herzog, Jürgen *see* **Backelin, Jörgen, 90i:13006**
Huneke, C. (*with* Ulrich, B.) Powers of licci ideals. **90i:13008**
Levy, Lawrence S. *see* **Guralnick, R.; et al., 90i:13007**
Naoum, A. G. (*with* Sharaf, K. R.) A note on the dual of a finitely generated multiplication module. **90e:13010**
— On the dual of a finitely generated multiplication module. II. **90e:13011**
— (*with* Al-Hashimi, B.; Sharaf, K. R.) The dual of a finitely generated multiplication module. **90f:13010**
Ngô Việt Trung (*with* Valla, Giuseppe) The Cohen-Macaulay type of points in generic position. **90i:13009**
Nishida, Koji On a construction of indecomposable modules and applications. **90g:13015**
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Játem, José Idealtransformierte von multiplikativen Systemen von Idealen und deren Endlichkeit. [Ideal transforms of multiplicative systems of ideals and their finiteness] **90j:13010**

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Facchini, Alberto Divisible modules over integral domains. **90a:13018**

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13C15 Dimension theory, depth, related rings (catenary, etc.)

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Cahen, Paul-Jean Construction B, I, D et anneaux localement ou résiduellement de Jaffard. [B, I, D construction and locally or residually Jaffard rings] **90m:13011**

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Gilmer, Robert (*with* Nashier, Budh; Nichols, Warren D.) The prime spectra of subalgebras of affine algebras and their localizations. **90b:13003**

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13D03 Cohomology of commutative rings and algebras

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Natsume, Toshikazu (*with* Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. **90k:13010**

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13D15 Grothendieck group, K-theory [see also 14F15, 18F25, 18F30, 19Axx]

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13D25 Complexes [see also 14Mxx]

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Aoyama, Yôichi (*with* Goto, Shiro) A conjecture of Sharp—the case of local rings with $\dim \mathrm{nonCM} \leq 1$ or $\dim \leq 5$. **90b:13018**

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13D30 Torsion theory [see also 13C12, 16A63, 18E40]

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Barja Pérez, Javier (*with* Rodicio, Antonio G.) Syzygetic ideals, regular sequences, and a question of Simis. **90b:13017**

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Goto, Shiro Surface singularities of finite Buchsbaum-representation type. **90h:13021**

Hibi, Takayuki Flawless O-sequences and Hilbert functions of Cohen-Macaulay integral domains. **90i:13021**

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13E05 Noetherian rings and modules

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Katz, Daniel (*with* McAdam, Stephen; Ratliff, L. J., Jr.) Prime divisors and divisorial ideals. **90g:13030**

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Cahen, Paul-Jean Couples d'anneaux partageant un idéal. [Pairs of rings that share an ideal] **90a:13007**

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13E10 Artinian rings and modules, finite-dimensional algebras

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13F05 Dedekind and Prüfer rings and their generalizations

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13F25 Formal power series rings

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13F30 Discrete valuation rings

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13G05 Integral domains

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13Hxx Local rings and semilocal rings

13H05 Regular local rings

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13H10 Special types (Macaulay, Gorenstein, etc.)

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— Plane graphs and Cohen-Macaulay posets. **90i:05035**

— What can be said about pure O-sequences? **90d:52012**

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Itoh, Shiroh Integral closures of ideals generated by regular sequences. **90g:13013**

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Katz, Daniel (*with* Verma, J. K.) Extended Rees algebras and mixed multiplicities. **90i:13024**

Kirby, David Hilbert functions and the extension functor. **90d:13023**

Lê Tuấn Hoa Algorithmetical aspects of the problem of classifying multi-projections of Veronesian varieties. **90d:14054**

Marley, Thomas The coefficients of the Hilbert polynomial and the reduction number of an ideal. **90m:13026**

Migliore, J. C. *see* **Geramita, A. V., 90f:14017** *and* **Bolondi, Giorgio, 90g:14017**

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Nishida, Koji On a construction of indecomposable modules and applications. **90g:13015**

Ogoma, Tetsushi A note on the syzygy problem. **90g:13023**

Park, Jong Youll Dualizing complex of the blowing-up of some one-dimensional local rings. **90k:13013**

Platte, Erich ★ Differentielle Methoden in der lokalen Algebra. (German) [Differential methods in local algebra] **90a:14022**

Reiten, Idun *see* **Auslander, Maurice, 90d:13014** *and* **90g:13014**

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Verma, J. K. Rees algebras of parameter ideals. **90i:13025**

— *see also* **Katz, Daniel, 90i:13024**

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Watanabe, Keiichi Study of F-purity in dimension two. **90b:14005**

13H15 Multiplicity theory and related topics

Boďa, Eduard (*with* Solčan, Štefan) On the multiplicity of $(X_1^m, X_2^n, X_1^k X_2^l)$. (Russian and Slovak summaries) **90c:13024**

Katz, Daniel (*with* Verma, J. K.) Extended Rees algebras and mixed multiplicities. **90i:13024**

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Marley, Thomas The coefficients of the Hilbert polynomial and the reduction number of an ideal. **90m:13026**

Ooishi, Akira Reductions of graded rings and pseudo-flat graded modules. **90d:13024**

Pohl, Thomas Cornelius Torsion des Differentialmoduls von Kurvensingularitäten mit maximaler Hilbertfunktion. [Torsion of the module of differentials of curve singularities with maximal Hilbert function] **90a:13040**

Roberts, Leslie G. (*with* Roitman, Moshe) On Hilbert functions of reduced and of integral algebras. **90c:13025**

Roberts, Paul Calvin Intersection theorems. **90j:13024**

Roitman, Moshe *see* **Roberts, Leslie G., 90c:13025**

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Spangher, Walter On the computation of Hilbert-Samuel series and multiplicity. **90j:13025**

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Brown, William C. One-dimensional Cohen-Macaulay rings with maximal Hilbert function. **90g:13035**

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— A note on the intersection of a hypersurface with a finite set of points in $\mathbf{P}^n$. **90j:14076**

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Vogel, Wolfgang *see* **Stückrad, Jürgen, 90b:14059a** *and* **90b:14059b**

13H99 None of the above, but in this section

Heinzer, William (*with* Lantz, David) Exceptional prime divisors of two-dimensional local domains. **90i:13026**

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Yin, Dong Sheng A structure theorem for commutative mid-domains with unit. (Chinese. English summary) **90h:13020**

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13Jxx Topological rings [see also 16A80]

13J05 Power series rings

Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrigen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] **90f:13013**

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Seibt, Peter Differential completions and differentially simple algebras. **90g:13039**

13J10 Complete rings

Items with secondary classifications in 13J10
Brezuleanu, A. (*with* Radu, N.) Stability of geometric regularity as consequence of Nagata's Jacobian criterion. **90b:13006**
Brundu, Michela (*with* Rossi, Fabio) On the computation of generalized standard bases. **90f:68097**
Miola, A. (*with* Mora, T.) Constructive lifting in graded structures: a unified view of Buchberger and Hensel methods. **90f:68096**
Mora, T. *see* **Miola, A., 90f:68096**
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13J15 Henselian rings

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Müller, Gerd *see* **Hauser, H., 90c:32041**
Rotthaus, Christel *see* **Artin, Michael, 90b:14006**

13J20 Global topological rings

Al-Ezeh, H. Equality of two topologies defined on a commutative ring. (Arabic summary) **90g:13038**

13J25 Ordered rings [see also 06F25, 16A86]

Items with secondary classifications in 13J25
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Schwartz, Niels The basic theory of real closed spaces. **90a:14032**

13J99 None of the above, but in this section

Cohen, Jo-Ann (*with* Koh, Kwangil) A characterization of the p-adic integers. **90a:13041**
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Saluja, K. S. *see* **Singh, Surjit^3, 90b:13021**
Shell, Niel Point at infinity. **90a:12019**
Singh, Surjit^3 (*with* Saluja, K. S.) Ring topologies on the quotient field of a Krull domain. **90b:13021**

13K05 Witt vectors and related rings

Items with secondary classifications in 13K05
Gaudier, Henri Algèbres de groupe du groupe additif. (English summary) [Group algebras of the additive group] **90j:14056**
Wyler, Thomas À propos d'un lemme de K. Kato sur le groupe de Brauer en caractéristique *p*. [Concerning a lemma of K. Kato on the Brauer group in characteristic *p*] **90j:13006**

13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

Items with secondary classifications in 13L05
Calude, Cristian (*with* Vaida, Dragoş) Ehrenfeucht test set theorem and Hilbert basis theorem: a constructive glimpse. (*see* **90m:68009**)
Kucera, T. G. Totally transcendental theories of modules: decomposition of models and types. **90a:03042**
Macintyre, Angus A Lefschetz principle for integral closures. (*see* **90d:03005**)
Nica, Vasile Linear strong approximation. **90h:14003**
Vaida, Dragoş *see* **Calude, Cristian**, (**90m:68009**)

13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M05 Structure

You, Hong The solution to a problem of Ganesan. (Chinese. English summary) **90m:13027**

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Cohen, Jo-Ann (*with* Koh, Kwangil) A characterization of the p-adic integers. **90a:13041**
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13M99 None of the above, but in this section

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Tao, Ren Ji Invertibility of linear finite automata over a ring. (*see* **90i:68004**)

13N05 Differential algebra [see also 12H05]

Bommer, Roland M. Ideals differential under high order derivations. **90k:13024**
Li, Wei^1 Remarks on rings of constants of derivations. **90a:13042**
Li Marzi, Enzo Maria On a semireflexive module with derivation. (Italian. English summary) **90f:13014**
Seibt, Peter Differential completions and differentially simple algebras. **90g:13039**
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Furuya, Mamoru (*with* Niitsuma, Hiroshi) Notes on extensions of derivations. **90i:13005**
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Niitsuma, Hiroshi *see* **Furuya, Mamoru, 90i:13005**
Takeuchi, Mitsuhiro A Hopf algebraic approach to the Picard-Vessiot theory. **90j:12016**

14–XX Algebraic geometry

14–01 Elementary exposition; textbooks

Reid, Miles ★ Undergraduate algebraic geometry. **90a:14001**
Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 1. (Russian) [Fundamentals of algebraic geometry. Vol. 1] **90g:14001**
— ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] **90g:14002**

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Fulton, William ★ Algebraic curves. **90k:14023**
Griffiths, Phillip A. ★ Introduction to algebraic curves. **90i:14028**
Reyssat, É. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of Riemann surfaces] **90k:30085**
(**Weiss, Richard**) *see* **Fulton, William, 90k:14023**
(**Weltin, Kuniko**) *see* **Griffiths, Phillip A., 90i:14028**

14–02 Advanced exposition (research surveys, monographs, etc.)

(**Ballico, Edoardo**) *see* **Problems: Algebraic geometry, 90j:14001**
(**Ciliberto, Ciro**) *see* **Problems: Algebraic geometry, 90j:14001**

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Problems:
Algebraic geometry Open problems. **90j:14001**

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Eisenbud, David (*with* Harris, Joseph Daniel) Progress in the theory of complex algebraic curves. **90d:14025**
Harris, Joseph Daniel *see* **Eisenbud, David, 90d:14025**

14–03 Historical (must also be assigned at least one classification number from Section 01)

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Arnol'd, V. I. Topological proof of the transcendence of the abelian integrals in Newton's *Principia*. (Russian) **90e:01015**
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(Berg, Maxine) *see* **Babbage, Charles, 90g:01062**

(Bromley, Allan G.) *see* **Babbage, Charles, 90g:01062**

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Clemens, Herbert Commentary on algebraic geometry. **90j:01027**

(Cohen, I. Bernard) *see* **Babbage, Charles, 90g:01062**

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Gherardelli, Francesco Zappa's contributions to algebraic geometry. (Italian) **90c:01071**

Kleiman, Steven The development of intersection homology theory. **90m:01045**

(Newton, I.) *see* **Arnol'd, V. I., 90e:01015** *and* **Petrova, S. S., 90e:01022**

Petrova, S. S. (*with* Bulycheva, M. G.) From the history of the method of the Newton polygon. (Russian) **90e:01022**

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Babbage, Charles *see* **Babbage, Charles, 90g:01062**

14–04 Explicit machine computation and programs (not the theory of computation or programming)

Anderson, D. C. *see* **Waggenspack, W. N., 90d:14001**

Chistov, A. L. Algorithms of polynomial complexity for computational problems in the theory of algebraic curves. (Russian. English summary) **90m:14001**

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Waggenspack, W. N. (*with* Anderson, D. C.) Piecewise parametric approximations for algebraic curves. **90d:14001**

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(Boissonnat, Jean-Daniel) *see* **Geometry and robotics, 90m:68006**

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Garrity, Thomas (*with* Warren, Joe) On computing the intersection of a pair of algebraic surfaces. **90e:14052**

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Hefez, Abramo (*with* Thorup, A.) Symmetric matrices with alternating blocks. **90g:14036**

Kapur, Deepak A refutational approach to geometry theorem proving. **90f:68158**

Ko, Hai Ping Geometry theorem proving by decomposition of quasi-algebraic sets: an application of the Ritt-Wu principle. **90j:14077**

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Workshop:

Geometry and Robotics ★ Geometry and robotics. **90m:68006**

14–06 Proceedings, conferences, etc.

(Ballico, Edoardo) *see* **Algebraic curves and projective geometry, 90i:14001**

(Barth, Wolf) *see* **Arithmetic of complex manifolds, 90h:14001**

(Białynicki-Birula, A.) *see* **Group actions and invariant theory, 90e:14002**

(Biancofiore, Aldo) *see* **Algebraic geometry, 90m:14002**

(Carrell, J.) *see* **Group actions and invariant theory, 90e:14002**

(Ciliberto, Ciro) *see* **Algebraic curves and projective geometry, 90i:14001**

(Fossum, R.) *see* **Invariant theory, 90a:14002**

(Geramita, A. V.) *see* **Seminar: Curves, 90h:14002**

(Haboush, W.) *see* **Invariant theory, 90a:14002**

(Hijikata, Hiroaki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

(Hironaka, Heisuke) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

(Hochster, M.) *see* **Invariant theory, 90a:14002**

(Kraft, Hanspeter) *see* **Topological methods in algebraic transformation groups, 90j:14003**

(Lakshmibai, V.) *see* **Invariant theory, 90a:14002**

(Lange, Herbert) *see* **Arithmetic of complex manifolds, 90h:14001**

(Livorni, Elvira Laura) *see* **Algebraic geometry, 90m:14002**

(Maruyama, Masaki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

(Matsumura, Hideyuki) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

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(Nagata, Masayoshi) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

(Oda, Tadao) *see* **Algebraic geometry and commutative algebra, 90b:14001a** *and* **90b:14001b**

(Petrie, Ted) *see* **Topological methods in algebraic transformation groups, 90j:14003**

(Ramírez de Arellano, E.) *see* **Algebraic geometry and complex analysis, 90j:14002**

(Russell, P.) *see* **Group actions and invariant theory, 90e:14002**

(Schwarz, Gerald W.) *see* **Topological methods in algebraic transformation groups, 90j:14003**

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(Sommese, A. J.) *see* **Algebraic geometry, 90m:14002**

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Arithmetic of complex manifolds ★ Arithmetic of complex manifolds. **90h:14001**

Conference:

Algebraic Curves and Projective Geometry ★ Algebraic curves and projective geometry. **90i:14001**

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Contemporary Mathematics ★ Invariant theory. **90a:14002**

Denton, TX ★ Invariant theory. **90a:14002**

Erlangen ★ Arithmetic of complex manifolds. **90h:14001**

Gargnano ★ Proceedings of the Geometry Conference. (Italian) **90d:14002**

Group actions and invariant theory ★ Group actions and invariant theory. **90e:14002**

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Kingston, ON ★ The Curves Seminar at Queen's. Vol. VI. **90h:14002**

L'Aquila ★ Algebraic geometry. **90m:14002**

Lecture Notes in Mathematics ★ Arithmetic of complex manifolds. **90h:14001**

— ★ Algebraic curves and projective geometry. **90i:14001**

— ★ Algebraic geometry and complex analysis. **90j:14002**

— ★ Algebraic geometry. **90m:14002**

Meeting:

American Mathematical Society ★ Invariant theory. **90a:14002**

Milan ★ Proceedings of the Geometry Conference. (Italian) **90d:14002**

Montreal, PQ ★ Group actions and invariant theory. **90e:14002**

New Brunswick, NJ ★ Topological methods in algebraic transformation groups. **90j:14003**

Pátzcuaro ★ Algebraic geometry and complex analysis. **90j:14002**

Proceedings:

Geometry Conference ★ Proceedings of the Geometry Conference. (Italian) **90d:14002**

Progress in Mathematics ★ Topological methods in algebraic transformation groups. **90j:14003**

Research on complex analytic geometry and related topics ★ Fukusō kaiseki kinangaku to sono shuhen no kenkyū. (Japanese) [Research on complex analytic geometry and related topics] **90d:14003**

Seminar:

Curves ★ The Curves Seminar at Queen's. Vol. VI. **90h:14002**

Session:

Invariant Theory ★ Invariant theory. **90a:14002**

Symposium:

Research on Complex Analytic Geometry and Related Topics ★ Fukusō kaiseki kinangaku to sono shuhen no kenkyū. (Japanese) [Research on complex analytic geometry and related topics] **90d:14003**

Topological methods in algebraic transformation groups ★ Topological methods in algebraic transformation groups. **90j:14003**

Trento ★ Algebraic curves and projective geometry. **90i:14001**

Workshop:

Algebraic Geometry and Complex Analysis ★ Algebraic geometry and complex analysis. **90j:14002**

Items with secondary classifications in 14–06

(Galbiati, Margherita) *see* **Real analytic and algebraic geometry, 90k:32001**

(Malliavin-Brameret, Marie-Paule) *see* **Seminar: Dubreil-Malliavin Algebra, 90h:16003**

(Randell, R.) *see* **Singularities, 90a:32002**

(Tognoli, A.) *see* **Real analytic and algebraic geometry, 90k:32001**

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Algebraic number theory ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] **90a:11002**

Colloquium:

Hodge Theory ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] **90j:32002**

Conference:

Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**

Conference: *(cont'd.)*

Real Analytic and Algebraic Geometry ★ Real analytic and algebraic geometry. **90k:32001**

Singularities ★ Singularities. **90a:32002**

Contemporary Mathematics ★ Singularities. **90a:32002**

Corvallis, OR ★ Quadratic forms and real algebraic geometry. **90j:14028**

Iowa City, IA ★ Singularities. **90a:32002**

Lecture Notes in Mathematics ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] **90h:16003**

— ★ Real analytic and algebraic geometry. **90k:32001**

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Real algebraic geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**

Real analytic and algebraic geometry ★ Real analytic and algebraic geometry. **90k:32001**

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Singularities ★ Singularities. **90a:32002**

Symposium:

Algebraic Number Theory ★ Daisuteki seisuron. (Japanese) [Algebraic number theory] **90a:11002**

Real Algebraic Geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**

Trento ★ Real analytic and algebraic geometry. **90k:32001**

14Axx Foundations

Items with secondary classifications in 14Axx

Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 1. (Russian) [Fundamentals of algebraic geometry. Vol. 1] **90g:14001**

— ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] **90g:14002**

14A05 Relevant commutative algebra [see also 13–XX]

Diers, Yves Codisjunctors and singular epimorphisms in the category of commutative rings. **90a:14003**

Lipman, Joseph On complete ideals in regular local rings. **90g:14003**

Roberts, Leslie G. On the lifting problem over an algebraically closed field. **90b:14002**

Items with secondary classifications in 14A05

Call, Frederick W. ★ Torsion-theoretic algebraic geometry. **90g:13026**

Heinzer, William (*with* Wiegand, Sylvia) Prime ideals in two-dimensional polynomial rings. **90b:13010**

Picavet, Gabriel Factorisations de morphismes d'anneaux commutatifs. [Factorizations of morphisms of commutative rings] **90a:13006**

Płoski, Arkadiusz Remarks on polynomial equations with analytic coefficients. (Russian summary) **90d:32014**

Shiffman, Bernard Degree bounds for the division problem in polynomial ideals. **90h:13009**

Sturmfels, Bernd Computing final polynomials and final syzygies using Buchberger's Gröbner bases method. **90d:13019**

Wiegand, Sylvia *see* **Heinzer, William, 90b:13010**

14A10 Varieties

Wang, Dong Ming Proof by examples and inclusion relations for algebraic varieties. (Chinese) (Not in MR)

Items with secondary classifications in 14A10

Miyanishi, Masayoshi Finite equivalence relations on algebraic varieties. **90a:14005**

14A15 Schemes

Items with secondary classifications in 14A15

Brodmann, M. Asymptotic depth and connectedness in projective schemes. **90m:13010**

Call, Frederick W. ★ Torsion-theoretic algebraic geometry. **90g:13026**

14A20 Generalizations (algebraic spaces, motifs)

Segura, M. I. (*with* Tarazona, Ferrer D.; Verschoren, A.) On compatibility. **90j:14004**

Tarazona, Ferrer D. *see* **Segura, M. I.; et al., 90j:14004**

Verschoren, A. *see* **Segura, M. I.; et al., 90j:14004**

Items with secondary classifications in 14A20

Schwartz, Niels The basic theory of real closed spaces. **90a:14032**

Vistoli, Angelo Intersection theory on algebraic stacks and on their moduli spaces. **90k:14004**

Wintenberger, Jean-Pierre Motifs et ramification pour les points d'ordre fini des variétés abéliennes. [Motives and ramification for the points of finite order of abelian varieties] **90h:14063**

Yuzvinsky, Sergey Flasque sheaves on posets and Cohen-Macaulay unions of regular varieties. **90a:13038**

14A99 None of the above, but in this section

Cherenack, Paul Closed subspaces of the sequence space. **90j:14005**

Items with secondary classifications in 14A99

Lattermann, Stefan ★ Tannakakategorien. (German) [Tannakian categories] **90k:18009**

MacCaull, W. A. Hilbert's Nullstellensatz revisited. **90c:18003**

14Bxx Local theory [see also 32Bxx]

14B05 Singularities [see also 14E15, 32B30, 32C40, 58C27]

Dieterich, Ernst Reduction of isolated singularities. **90b:14003**

Duval, Dominique Rational Puiseux expansions. **90c:14001**

Goze, Michel (*with* Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] **90m:14003**

Granja Barón, Angel Apéry basis and polar invariants of plane curve singularities. **90j:14006**

Greuel, Gert-Martin (*with* Kröning, H.) Simple singularities in positive characteristic. **90k:14001**

Kröning, H. *see* **Greuel, Gert-Martin, 90k:14001**

Lutz, Robert *see* **Goze, Michel, 90m:14003**

Moh, Tzuong Tsieng On the classification problem of embedded lines in characteristic p. **90a:14004**

Ooishi, Akira Genera of curve singularities. **90k:14002**

Solberg, Øyvind Hypersurface singularities of finite Cohen-Macaulay type. **90b:14004**

Teitelbaum, Jeremy The computational complexity of the resolution of plane curve singularities. **90j:14007**

Watanabe, Keiichi Study of F-purity in dimension two. **90b:14005**

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Abhyankar, Shreeram S. Irreducibility criterion for germs of analytic functions of two complex variables. **90h:32018**

Aleksandrov, A. G. Nonisolated Saito singularities. **90b:32024**

Auslander, Maurice (*with* Reiten, Idun) Cohen-Macaulay modules for graded Cohen-Macaulay rings and their completions. **90g:13014**

Behnke, Kurt On Auslander modules of normal surface singularities. **90k:14031**

Brieskorn, E. Automorphic sets and braids and singularities. **90a:32024**

Campillo López, Antonio (*with* Delgado de la Mata, Félix; Núñez Jiménez, Carolina A.) The arithmetic of Arf and saturated semigroups. Applications. (Spanish. English summary) **90d:14029**

Carbonne, P. Sur la classification des branches. [On the classification of branches] **90m:14022**

Delgado de la Mata, Félix *see* **Campillo López, Antonio; et al., 90d:14029**

Farouki, R. T. (*with* Rajan, V. T.) On the numerical condition of algebraic curves and surfaces. I. Implicit equations. **90f:65028**

Gaffney, Terence Multiple points, chaining and Hilbert schemes. **90g:14008**

Gerdt, V. P. (*with* Kostov, N. A.; Kostova, Z. T.) Computer algebra and computation of Puiseux expansions of algebraic functions. **90m:14023**

Granja Barón, Angel (*with* Sánchez-Giralda, T.) Enriques diagram of a plane algebroid branch and classification of singularities. (Spanish) **90d:14031**

Gurjar, R. V. A tribute to a work of C. P. Ramanujam. **90d:14038**

Hauser, H. (*with* Randell, R.) Report on the problem session. **90c:32017**

Herrera Govantes, Francisco Javier Zariski saturation of monomial rings, and their valuation semigroups. (Spanish. English summary) **90a:13036**

Hidaka, Fumio (*with* Tomari, Masataka) On singularities arising from the contraction of the minimal section of a ruled surface. **90g:14019**

Iarrobino, A. The Hilbert function of a Gorenstein Artin algebra. **90k:13022**

Ishii, Shihoko Two-dimensional singularities with bounded pluri-genera δ_m are Q-Gorenstein singularities. **90h:32019**

Kahn, Constantin P. M. ★ Reflexive Moduln auf einfach-elliptischen Flächensingularitäten. (German) [Reflexive modules over simply elliptic surface singularities] **90h:14045**

Kostov, N. A. *see* **Gerdt, V. P.; et al., 90m:14023**

Kostova, Z. T. *see* **Gerdt, V. P.; et al., 90m:14023**

Kunz, Ernst (*with* Waldi, Rolf) ★ Regular differential forms. **90a:14021**

Martsinkovsky, Alex Almost split sequences and Zariski differentials. **90i:14038**

Núñez Jiménez, Carolina A. *see* **Campillo López, Antonio; et al., 90d:14029**

Pedroso, Hermes Antonio (*with* Tadini, Wilson Mauricio) Abutment of bivariate homogeneous quartics. (Portuguese. English summary) **90m:58017**

Pellikaan, Ruud On hypersurface singularities which are stems. **90k:32030**

Rajan, V. T. *see* **Farouki, R. T., 90f:65028**

(Ramanujam, C. P.) *see* **Gurjar, R. V., 90d:14038**

Randell, R. *see* **Hauser, H., 90c:32017**

Reiten, Idun *see* **Auslander, Maurice, 90g:13014**

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Steenbrink, J. H. M. The spectrum of hypersurface singularities. **90m:32027**

Tadini, Wilson Mauricio *see* **Pedroso, Hermes Antonio, 90m:58017**

Tomari, Masataka *see* **Hidaka, Fumio, 90g:14019**

Waldi, Rolf *see* **Kunz, Ernst, 90a:14021**

Wallet, G. Comment É. Picard désingularisait une courbe algébrique plane complexe. [How É. Picard desingularized a complex algebraic plane curve] (*see* **90j:03116**)

Xu, Yijing (*with* Yau, Stephen S.-T.) The inequality $\mu \geq 12p_g - 4$ for hypersurface weakly elliptic singularities. **90g:32009**

Yau, Stephen S.-T. The multiplicity of isolated two-dimensional hypersurface singularities: Zariski problem. **90i:14039**

— *see also* **Xu, Yijing, 90g:32009**

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14B07 Deformations of singularities [see also 14D15, 32C40, 32G05, 32G11, 32G13]

Diaz, Steven Irreducibility of the equiclassical locus. **90c:14002**
Ehlers, F. (*with* Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. **90f:14001**
Martin, Bernd (*with* Pfister, Gerhard) Singularities of moduli spaces. **90m:14004**
Pfister, Gerhard *see* **Martin, Bernd, 90m:14004**
Scherk, J. *see* **Ehlers, F., 90f:14001**

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Aleksandrov, A. G. Nonisolated Saito singularities. **90b:32024**
Arapura, Donu Smoothable varieties with torsion free canonical sheaf. **90b:14026**
Damon, James Topological equivalence for nonisolated singularities and global affine hypersurfaces. **90j:58009**
Kronheimer, P. B. The construction of ALE spaces as hyper-Kähler quotients. **90d:53055**
— A Torelli-type theorem for gravitational instantons. **90d:53056**
Laufer, Henry B. Tangent cones for deformations of two-dimensional quasi-homogeneous singularities. **90g:32024**
O'Shea, Donal B. Spaces of limiting tangent spaces. **90h:32020**
Seeley, Craig (*with* Yau, Stephen S.-T.) Variation of complex structures and variation of Lie algebras. **90k:32067**
Yau, Stephen S.-T. *see* **Seeley, Craig, 90k:32067**

14B10 Infinitesimal methods

Items with secondary classifications in 14B10

Greuel, Gert-Martin (*with* Karras, Ulrich) Families of varieties with prescribed singularities. **90d:32037**
Karras, Ulrich *see* **Greuel, Gert-Martin, 90d:32037**

14B12 Local deformation theory, Artin approximation, etc.

Artin, Michael (*with* Rotthaus, Christel) A structure theorem for power series rings. **90b:14006**
Nica, Vasile Linear strong approximation. **90h:14003**
Rotthaus, Christel *see* **Artin, Michael, 90b:14006**

Items with secondary classifications in 14B12

Di Gennaro, Vincenzo A note on deformations of coherent sheaves. (Italian. English summary) **90g:14006**
Hauser, H. (*with* Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. **90c:32041**
Müller, Gerd *see* **Hauser, H., 90c:32041**
Pellikaan, Ruud On hypersurface singularities which are stems. **90k:32030**
Popescu, Dorin Polynomial rings and their projective modules. **90g:13017**
Smith, Roy Campbell (*with* Varley, Robert) Deformations of singular points on theta divisors. **90g:14016**
Varley, Robert *see* **Smith, Roy Campbell, 90g:14016**
Yanik, Joe Deformations of rings. **90e:16040**

14B15 Local cohomology [see also 32C36]

Achilles, Rüdiger (*with* Schenzel, Peter) On bounds for Castelnuovo's index of regularity. **90i:14002**
Angéniol, B. (*with* Lejeune-Jalabert, M.) ★ Calcul différentiel et classes caractéristiques en géométrie algébrique. (French) [Differential calculus and characteristic classes in algebraic geometry] **90h:14004**
Bueso, J. L. (*with* Torrecillas Jover, Blas; Verschoren, A.) Local cohomology of graded rings and projective schemes. **90d:14004**
Lejeune-Jalabert, M. *see* **Angéniol, B., 90h:14004**
Schenzel, Peter *see* **Achilles, Rüdiger, 90i:14002**
Stückrad, Jürgen (*with* Vogel, Wolfgang) Castelnuovo's regularity and cohomological properties of sets of points in $\mathbf{P}^n$. **90h:14005**
Torrecillas Jover, Blas *see* **Bueso, J. L.; et al., 90d:14004**
Verschoren, A. *see* **Bueso, J. L.; et al., 90d:14004**
Vogel, Wolfgang *see* **Stückrad, Jürgen, 90h:14005**

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Aoyama, Yôichi (*with* Goto, Shiro) A conjecture of Sharp—the case of local rings with $\dim \mathrm{nonCM} \le 1$ or $\dim \le 5$. **90b:13018**
Call, Frederick W. ★ Torsion-theoretic algebraic geometry. **90g:13026**
Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**
Goto, Shiro *see* **Aoyama, Yôichi, 90b:13018**
Ishida, Masa-Nori The local cohomology groups of an affine semigroup ring. **90a:13029**
Ooishi, Akira Reductions of graded rings and pseudo-flat graded modules. **90d:13024**
Stückrad, Jürgen (*with* Vogel, Wolfgang) Castelnuovo's regularity and multiplicity. **90b:14059a**
— (*with* Vogel, Wolfgang) Castelnuovo bounds for locally Cohen-Macaulay schemes. **90b:14059b**
Vogel, Wolfgang *see* **Stückrad, Jürgen, 90b:14059a** *and* **90b:14059b**

14B20 Formal neighborhoods

Items with secondary classifications in 14B20

Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. **90h:14036**

14B25 Local structure of maps: étale, flat, etc. [see also 13–XX, 14E40]

Jeremías López, Ana ★ Sobre la propiedad de extension y el criterio de normalidad de Krull-Serre. (Spanish) [The extension property and the Krull-Serre normality criterion] **90b:14007**

Items with secondary classifications in 14B25

Popescu, Dorin Polynomial rings and their projective modules. **90g:13017**
Schenzel, Peter When is a flat algebra of finite type? **90i:13016**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Ballico, Edoardo On the minimal free resolution of s points in $\mathbf{P}^3$. **90h:14006**
— On the Hilbert scheme of curves in a smooth quadric. **90d:14005**
— On the order of projective curves. **90g:14004**
Elencwajg, G. (*with* Le Barz, Patrick) L'anneau de Chow des triangles du plan. [The Chow ring of triangles in the plane] **90i:14003**
Gotzmann, Gerd Some irreducible Hilbert schemes. **90h:14007**
Lawson, H. Blaine, Jr. Algebraic cycles and homotopy theory. **90h:14008**
Le Barz, Patrick La variété des triplets complets. [The variety of complete triples] **90j:14008**
— *see also* **Elencwajg, G., 90i:14003**
Tanaka, Tatsuji On the behaviours of Chow-forms under a linear projection. **90m:14005**
Yaméogo, Joachim Sur l'alignement dans les schémas de Hilbert ponctuels du plan. La famille des N-uplets de $\mathbf{P}^2$ contenant au moins r points sur une droite. [Alignment in punctual Hilbert schemes of the plane. The family of N-tuples in $\mathbf{P}^2$ containing at least r points on a line] **90j:14009**

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Ando, Tetsuya The normal bundles of singular fibres of conic bundles. **90i:14014**
Ballico, Edoardo (*with* Ellia, Ph.) On the existence of curves with maximal rank in $\mathbf{P}^n$. **90b:14033**
Carrà Ferro, Giuseppa Gröbner bases and Hilbert schemes. I. **90g:13005**
Di Gennaro, Vincenzo A note on deformations of coherent sheaves. (Italian. English summary) **90g:14006**
Ellia, Ph. Sur les lacunes d'Halphen. [On the Halphen lacunae] **90j:14031**
— *see also* **Ballico, Edoardo, 90b:14033**
Furushima, Mikio (*with* Nakayama, Noboru) The family of lines on the Fano threefold V_5. **90k:14039**
Gaffney, Terence Multiple points, chaining and Hilbert schemes. **90g:14008**
Hirschowitz, André La rationalité des schémas de Hilbert de courbes gauches rationnelles suivant Katsylo. [The rationality of the Hilbert schemes of rational space curves, following Katsylo] **90j:14033**
Kleppe, Jan O. Liaison of families of subschemes in $\mathbf{P}^n$. **90m:14011**
Mezzetti, Emilia (*with* Sacchiero, Gianni) Gonality and Hilbert schemes of smooth curves. **90j:14034**
Miró-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) **90m:14027**
Nakayama, Noboru *see* **Furushima, Mikio, 90k:14039**
Pareschi, Giuseppe Components of the Hilbert scheme of smooth space curves with the expected number of moduli. **90a:14036**
Pragacz, Piotr Determinantal varieties and symmetric polynomials. (Russian) **90h:14072a**
— Letter to the editor: "Determinantal varieties and symmetric polynomials". (Russian) **90h:14072b**
Sacchiero, Gianni *see* **Mezzetti, Emilia, 90j:14034**
Schröder, Olaf Die Chowvarietät der ungeordneten Punkttripel. [The Chow variety of unordered point triples] **90i:14059**
Treger, Robert Plane curves with nodes. **90d:14027**

14C10 Equivalence relations

Lewis, James D. Towards a generalization of Mumford's theorem. **90i:14004**
Miyanishi, Masayoshi Finite equivalence relations on algebraic varieties. **90a:14005**
Nori, Madhav V. Cycles on the generic abelian threefold. **90k:14003**

Items with secondary classifications in 14C10

Faber, Carel F. Some results on the codimension-two Chow group of the moduli space of stable curves. **90j:14032**
Kucharz, W. Symplectic bilinear forms on affine real algebraic surfaces. **90e:14022**

14C15 Rational equivalence rings

Al Amrani, A. Groupe de Chow et K-théorie cohérente des espaces projectifs tordus. (English summary) [The Chow group and coherent K-theory of twisted projective spaces] **90e:14003**
Maruyama, Naomasa (*with* Suwa, Noriyuki) Remarques sur un article de Bloch et Srinivas sur les cycles algébriques. [Remarks on an article of Bloch and Srinivas on algebraic cycles] **90c:14003**
Parimala, R. Witt groups of affine three-folds. **90a:14006**
Suwa, Noriyuki *see* **Maruyama, Naomasa, 90c:14003**

Items with secondary classifications in 14C15

Elencwajg, G. (*with* Le Barz, Patrick) L'anneau de Chow des triangles du plan. [The Chow ring of triangles in the plane] **90i:14003**
Ellingsrud, Geir (*with* Strømme, Stein Arild) On the Chow ring of a geometric quotient. **90h:14019**

Le Barz, Patrick *see* **Elencwajg, G., 90i:14003**
Nart, Enric The Bloch complex in codimension one and arithmetic duality. **90j:11057**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 90h:14019**
Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**

14C17 Intersection theory

Barlet, Daniel (*with* Peternell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. **90m:14006**
Bloch, Spencer Cycles and biextensions. **90d:14006**
(Danilov, V. I.) *see* **Fulton, William, 90h:14009**
Elkik, R. Fibrés d'intersections et intégrales de classes de Chern. [Bundles of intersections and integrals of Chern classes] **90j:14010**
Fulton, William ★ Теория пересечений. (Russian) [Intersection theory] **90h:14009**
Giuffrida, Salvatore On the transversality of two surfaces in $\mathbf{P}^3$. (Italian. English summary) **90d:14007**
Peternell, Thomas *see* **Barlet, Daniel; et al., 90m:14006**
Pragacz, Piotr Enumerative geometry of degeneracy loci. **90e:14004**
Schneider, Michael Hellmut *see* **Barlet, Daniel; et al., 90m:14006**
Vistoli, Angelo Alexander duality in intersection theory. **90e:14005**
— Intersection theory on algebraic stacks and on their moduli spaces. **90k:14004**

Items with secondary classifications in 14C17

Aluffi, Paolo The enumerative geometry of plane cubics. I. Smooth cubics. **90k:14058**
Ferrarese, Giorgio On the variety that represents the second-order curvilinear elements of the projective plane. (Italian. English summary) **90j:14074**
Gillet, Henri (*with* Soulé, Christophe) Amplitude arithmétique. (English summary) [Arithmetic ampleness] **90a:14028**
Johnsen, Trygve Multiplicities of solutions to some enumerative contact problems. **90c:14034**
Kirby, David On Bezout's theorem. **90a:13039**
Kleiman, Steven Intersection theory and enumerative geometry: a decade in review. **90f:14034**
Laksov, D. (*with* Lascoux, Alain; Thorup, A.) On Giambelli's theorem on complete correlations. **90i:14058**
Lascoux, Alain *see* **Laksov, D.; et al., 90i:14058**
Roberts, Paul Calvin Intersection theorems. **90j:13024**
Shiffman, Bernard Degree bounds for the division problem in polynomial ideals. **90h:13009**
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Thorup, A. *see* **Laksov, D.; et al., 90i:14058** *and* **Kleiman, Steven, 90f:14034**
Vainsencher, I. (*with* Voloch, J. F.) On the Castelnuovo-Severi inequality. **90e:14006**
Vistoli, Angelo Characteristic classes of principal bundles in algebraic intersection theory. **90k:14052**
Voloch, J. F. *see* **Vainsencher, I., 90e:14006**

14C20 Divisors, linear systems

Bartocci, Umberto (*with* Guerra, Lucio) On a linearity criterion for algebraic systems of divisors on a projective variety. (Italian summary) **90h:14010**
Biancofiore, Aldo On the hyperplane sections of blow-ups of complex projective plane. **90m:14007**
— (*with* Livorni, Elvira Laura) On the iteration of the adjunction process for surfaces of negative Kodaira dimension. **90c:14004**
Cumino, C. (*with* Greco, Silvio; Manaresi, Mirella) Weakly normal algebraic varieties and Bertini theorem. (Italian. English summary) **90h:14011**
Degoli, Lando Individualisation des bases rationnelles des systèmes linéaires de quadriques. [Individualization of the rational bases of linear systems of quadrics] **90g:14005**
Ellia, Ph. Une remarque sur les systèmes linéaires sans points base d'hypersurfaces de l'espace projectif. [A remark on base-point-free linear systems of hypersurfaces in projective space] **90m:14008**
Fania, Maria Lucia (*with* Sommese, A. J.) Varieties whose hyperplane section are $\mathbf{P}^k_{\mathbf{C}}$ bundles. **90h:14012**
Gimigliano, Alessandro Regularity of linear systems of plane curves. **90i:14005**
Giuffrida, Salvatore Hilbert function of a 0-cycle in $\mathbf{P}^2$. **90b:14008**
Greco, Silvio *see* **Cumino, C.; et al., 90h:14011**
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Livorni, Elvira Laura *see* **Biancofiore, Aldo, 90c:14004**
Manaresi, Mirella *see* **Cumino, C.; et al., 90h:14011**
Sato, Ei-ichi A variety which contains a $\mathbf{P}^1$-fiber space as an ample divisor. **90h:14013**
Sommese, A. J. On the nonemptiness of the adjoint linear system of a hyperplane section of a threefold. **90j:14011**
— *see also* **Fania, Maria Lucia, 90h:14012**
Vainsencher, I. (*with* Voloch, J. F.) On the Castelnuovo-Severi inequality. **90e:14006**
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Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5. **90c:14024**
Ballico, Edoardo On the minimal free resolution of s points in $\mathbf{P}^3$. **90h:14006**
— A remark on linear series on general k-gonal curves. (Italian summary) **90f:14015**
— (*with* Lanteri, Antonio) An indecomposable rank-2 vector bundle the complete linear system of whose determinant consists of hyperelliptic curves. (Italian summary) **90j:14022**
Beltrametti, M. (*with* Biancofiore, Aldo; Sommese, A. J.) Projective n-folds of log-general type. I. **90h:14056**
Biancofiore, Aldo *see* **Beltrametti, M.; et al., 90h:14056**
Brivio, Sonia (*with* Lanteri, Antonio) On complex projective surfaces with trigonal hyperplane sections. **90k:14032a**
— (*with* Lanteri, Antonio) Erratum to: "On complex projective surfaces with trigonal hyperplane sections" [Manuscripta Math. **65** (1989), no. 1, 83–92]. **90k:14032b**
Coppens, Marc Smooth curves possessing many linear systems g_n^1. **90a:14045**
Degoli, Lando Un théorème fondamental sur les systèmes linéaires de quadriques. (Russian and Polish summaries) [A fundamental theorem on linear systems of quadrics] **90d:14056**
— On the properties of the Jacobian of a linear system of quadrics. (Italian) **90d:14057**
Donagi, Ron (*with* Morrison, David R.) Linear systems on $K3$-sections. **90a:14046**
D'Souza, Harry A general result on local spannedness. **90f:14024**
Eisenbud, David (*with* Harris, Joseph Daniel) Irreducibility of some families of linear series with Brill-Noether number. I. **90a:14035**
Fania, Maria Lucia (*with* Sommese, A. J.) On the projective classification of smooth n-folds with n even. **90j:14051**
Green, Mark L. Restrictions of linear series to hyperplanes, and some results of Macaulay and Gotzmann. **90k:13021**
Harris, Joseph Daniel *see* **Eisenbud, David, 90a:14035**
Hirschowitz, André Une conjecture pour la cohomologie des diviseurs sur les surfaces rationnelles génériques. [A conjecture for the cohomology of divisors on generic rational surfaces] **90g:14021**
Iitaka, Shigeru Classification of reducible plane curves. **90a:14047**
Lanteri, Antonio On polarized surfaces of Δ-genus two. (Italian summary) **90a:14053**
— (*with* Palleschi, Marino; Sommese, A. J.) Very ampleness of $K_X \otimes \mathscr{L}^{\dim X}$ for ample and spanned line bundles $\mathscr{L}$. **90j:14021**
— *see also* **Ballico, Edoardo, 90j:14022; Brivio, Sonia, 90k:14032a** *and* **90k:14032b**
Luo, Tie Riemann-Roch type inequalities for nef and big divisors. **90i:14007**
Morrison, David R. *see* **Donagi, Ron, 90a:14046**
Palleschi, Marino *see* **Lanteri, Antonio; et al., 90j:14021**
Pirola, Gian Pietro On the Néron-Severi groups of the surfaces of special divisors. **90j:14037**
Ramanan, S. Curves and their canonical imbeddings. **90a:14048**
Schreyer, Frank-Olaf Green's conjecture for general p-gonal curves of large genus. **90j:14041**
Sommese, A. J. *see* **Beltrametti, M.; et al., 90h:14056; Lanteri, Antonio; et al., 90j:14021** *and* **Fania, Maria Lucia, 90j:14051**
Van Dyke, Frances Generators and relations for finitely generated graded normal rings of dimension two. **90b:13020**
Verdier, Jean-Louis Applications harmoniques de S^2 dans S^4. II. [Harmonic mappings from S^2 into S^4. II] **90e:58036**
Vistoli, Angelo Characteristic classes of principal bundles in algebraic intersection theory. **90k:14052**

14C21 Webs, nets [see also 53A60]

Items with secondary classifications in 14C21

Goldberg, Vladislav V. ★ Theory of multicodimensional $(n+1)$-webs. **90h:53021**
Little, John B. On webs of maximum rank. **90g:53023**

14C22 Picard groups

Al Amrani, A. Classes d'idéaux et groupe de Picard des fibrés projectifs tordus. (English summary) [Ideal classes and the Picard group of twisted projective bundles] **90e:14007**
Drezet, J.-M. (*with* Narasimhan, M. S.) Groupe de Picard des variétés de modules de fibrés semi-stables sur les courbes algébriques. [The Picard group of moduli varieties of semistable bundles over algebraic curves] **90d:14008**
Narasimhan, M. S. *see* **Drezet, J.-M., 90d:14008**
Wiegand, Roger Picard groups of singular affine curves over a perfect field. **90c:14005**

Items with secondary classifications in 14C22

Brion, Michel Groupe de Picard et nombres caractéristiques des variétés sphériques. [Picard group and characteristic numbers of spherical varieties] **90i:14048**
Carbonne, P. Groupe des classes de diviseurs des algèbres graduées normales. [The divisor-class group of normal graded algebras] **90m:13001**
Kraft, Hanspeter G-vector bundles and the linearization problem. **90j:14062**
Salmon, Paolo On the divisors of reducible varieties. (Italian. English summary) **90k:13016**

14C25 Zero-cycles

Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective space. **90f:14002**
Srinivas, V. Torsion 0-cycles on affine varieties in characteristic p. **90e:14008**
— Indecomposable projective modules on affine domains. II. **90h:14014**

Items with secondary classifications in 14C25

Bhatwadekar, S. M. Inversion of monic polynomials and existence of unimodular elements. II. **90b:13012**
Geramita, A. V. (*with* Migliore, J. C.) Hyperplane sections of a smooth curve in $\mathbf{P}^3$. **90h:14039**
Maruyama, Naomasa (*with* Suwa, Noriyuki) Remarques sur un article de Bloch et Srinivas sur les cycles algébriques. [Remarks on an article of Bloch and Srinivas on algebraic cycles] **90c:14003**
Migliore, J. C. *see* **Geramita, A. V., 90h:14039**
Roberts, Leslie G. (*with* Roitman, Moshe) On Hilbert functions of reduced and of integral algebras. **90c:13025**
Roitman, Moshe *see* **Roberts, Leslie G., 90c:13025**
Salberger, Per On the arithmetic of conic bundle surfaces. **90m:11093a**
— Erratum: "On the arithmetic of conic bundle surfaces". **90m:11093b**
Suwa, Noriyuki *see* **Maruyama, Naomasa, 90c:14003**

14C30 Transcendental methods, Hodge theory [see also 32J25]

Carlson, James A. (*with* Kasparian, Azniv; Toledo, Domingo) Variations of Hodge structure of maximal dimension. **90h:14015**

Green, Mark L. Griffiths' infinitesimal invariant and the Abel-Jacobi map. **90c:14006**

Hoffman, Jerome William On Kollár's vanishing theorems. I. **90k:14005**

Kasparian, Azniv *see* **Carlson, James A.; et al., 90h:14015**

Laszlo, Yves Théorème de Torelli générique pour les intersections complètes de trois quadriques de dimension paire. [A generic Torelli theorem for complete intersections of three quadrics of even dimension] **90i:14006**

Puerta Sales, Fernando Applications des hyperrésolutions cubiques à la théorie de Hodge. [Applications of cubic hyperresolutions to Hodge theory] (*see* **90a:14024**)

Schoen, Chad Cyclic covers of $\mathbf{P}^v$ branched along $v+2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. **90m:14009**

Toledo, Domingo *see* **Carlson, James A.; et al., 90h:14015**

Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] **90a:14007**

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Bardelli, Fabio A footnote to a paper by A. Grothendieck (the Grothendieck generalized Hodge conjecture for some geometric families of abelian threefolds): "Hodge's general conjecture is false for trivial reasons" [Topology **8** (1969), 299–303; MR **40** #5624]. (Italian summary) **90k:14049**

Clemens, Herbert The infinitesimal Abel-Jacobi mapping and moving the $\mathscr{O}(2)+\mathscr{O}(-4)$ curve. **90j:14047**

(Grothendieck, A.) *see* **Bardelli, Fabio, 90k:14049**

Guillén, F. Descente cubique de la cohomologie de de Rham algébrique. [Cubic descent of the algebraic de Rham cohomology] (*see* **90a:14024**)

Hoyt, William L. On twisted Legendre equations and Kummer surfaces. **90h:14050**

Kawai, Sōichi On the local invariant 1-cocycle theorem. **90e:32014**

Nagase, Masayoshi Hodge theory of singular algebraic curves. **90h:14031**

Oda, Takayuki Hodge numbers of a Kummer covering of $\mathbf{P}^2$ ramified along a line configuration. **90f:14006**

— (*with* Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. **90m:11072**

Saito, Morihiko Modules de Hodge polarisables. [Polarizable Hodge modules] **90k:32038**

Schwermer, Joachim *see* **Oda, Takayuki, 90m:11072**

Sen, Shankar The analytic variation of p-adic Hodge structure. **90b:11062**

Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] **90g:14002**

Usa, Takeshi Lefschetz operators and the existence of projective equations. **90m:14013**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 18F25, 19E15]

Dupont, Johan L. On polylogarithms. **90d:14009**

Lawson, H. Blaine, Jr. (*with* Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. **90d:14010**

Michelsohn, Marie-Louise *see* **Lawson, H. Blaine, Jr., 90d:14010**

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Raskind, Wayne Algebraic K-theory, étale cohomology and torsion algebraic cycles. **90d:14011**

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Al Amrani, A. Groupe de Chow et K-théorie cohérente des espaces projectifs tordus. (English summary) [The Chow group and coherent K-theory of twisted projective spaces] **90e:14003**

Bhatwadekar, S. M. Inversion of monic polynomials and existence of unimodular elements. II. **90b:13012**

Bloch, Spencer Cycles and biextensions. **90d:14006**

Nesterenko, Yu. P. (*with* Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K-theory. **90a:20092**

Neukirch, Jürgen The Beĭlinson conjecture for algebraic number fields. **90f:11042**

Önsiper, Hurşit Generalized Albanese varieties for surfaces in characteristic $p>0$. **90h:14025**

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Pedrini, Claudio Riemann-Roch and Chow theories for singular varieties. **90e:14009**

Suslin, A. A. *see* **Nesterenko, Yu. P., 90a:20092**

Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**

— Survey of algebraic vs. étale topological K-theory. **90h:14029**

14C40 Riemann-Roch theorems [see also 14F12, 19E20, 19L10]

Luo, Tie Riemann-Roch type inequalities for nef and big divisors. **90i:14007**

Pedrini, Claudio Riemann-Roch and Chow theories for singular varieties. **90e:14009**

Items with secondary classifications in 14C40

Feĭgin, B. L. (*with* Tsygan, B. L.) Riemann-Roch theorem and Lie algebra cohomology. I. **90k:17041**

Fujita, Takao Remarks on quasi-polarized varieties. **90i:14045**

Giuffrida, Salvatore The Hilbert function of curves on certain smooth quartic surfaces. **90i:14032**

Tsygan, B. L. *see* **Feĭgin, B. L., 90k:17041**

14C99 None of the above, but in this section

Eisenbud, David (*with* Koh, Jee-Heub) Remarks on points in a projective space. **90i:14008**

Koh, Jee-Heub *see* **Eisenbud, David, 90i:14008**

Shi, He On Chern characters of algebraic hypersurface with arbitrary singularities. **90h:14016**

Items with secondary classifications in 14C99

Angéniol, B. (*with* Lejeune-Jalabert, M.) ★ Calcul différentiel et classes caractéristiques en géométrie algébrique. (French) [Differential calculus and characteristic classes in algebraic geometry] **90h:14004**

Bochnak, J. (*with* Kucharz, W.) On real-algebraic models of smooth manifolds. **90a:14029**

Kucharz, W. *see* **Bochnak, J., 90a:14029**

Lejeune-Jalabert, M. *see* **Angéniol, B., 90h:14004**

Ngô Việt Trung (*with* Valla, Giuseppe) The Cohen-Macaulay type of points in generic position. **90i:13009**

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Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L-functions. **90e:11094**

Sertöz, Sinan C^*-actions on Grassmann bundles and the cycle at infinity. **90f:32035**

Valla, Giuseppe *see* **Ngô Việt Trung, 90i:13009**

Yokura, Shoji On a generalization of MacPherson's Chern homology class. **90m:32044**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Aomoto, K. A construction of integrable differential system associated with braid groups. **90h:14017**

Items with secondary classifications in 14D05

André, Yves Erratum to the article: "Complex multiplication in pencils of abelian varieties" [in *Séminaire de Théorie des Nombres, Paris 1984–85*, 1–22, Birkhäuser Boston, Boston, MA, 1986; MR 88j:14055]. (French) **90h:14061**

Baldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**

Blok, B. Yu. (*with* Yankielowicz, Shimon) The Riemann monodromy problem and conformal field theories on the torus. **90g:81213**

Dwork, B. *see* **Baldassarri, F.; et al., 90m:30058**

Eguchi, Tohru (*with* Ooguri, Hirosi) Differential equations for characters of Virasoro and affine Lie algebras. **90b:17026**

Fujimoto, Yoshio A remark on the decomposition of abelian fiber spaces over curves. **90m:14037**

Kiritsis, E. Fuchsian differential equations for characters on the torus: a classification. **90k:81232**

Naculich, Stephen G. Differential equations for rational conformal characters. **90h:81179**

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Pascual Gainza, P. Théorèmes sur la monodromie. [Monodromy theorems] (*see* **90a:14024**)

Roy, Swapna *see* **Roy Chowdhury, A., 90k:81240**

Roy Chowdhury, A. (*with* Roy, Swapna) On the global solution to the differential equation for the n-point conformal correlator. **90k:81240**

Sasaki, Takeshi (*with* Yoshida, Masaaki) Linear differential equations in two variables of rank four. I. **90e:11071a**

— (*with* Yoshida, Masaaki) Linear differential equations in two variables of rank four. II. The uniformizing equation of a Hilbert modular orbifold. **90e:11071b**

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Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] **90a:14007**

Yankielowicz, Shimon *see* **Blok, B. Yu., 90g:81213**

Yoshida, Masaaki ★ Fuchsian differential equations. **90f:32025**

— *see also* **Sasaki, Takeshi, 90e:11071a** *and* **90e:11071b**

14D10 Arithmetic ground fields (finite, local, global)

Items with secondary classifications in 14D10

Gillard, Roland Étude d'une famille modulaire de variétés abéliennes. [Study of a modular family of abelian varieties] **90k:11070**

Nadel, Alan Michael The nonexistence of certain level structures on abelian varieties over complex function fields. **90e:14044**

14D15 Formal methods; deformations [see also 13D10, 14B07, 16A58, 32Gxx]

Di Gennaro, Vincenzo A note on deformations of coherent sheaves. (Italian. English summary) **90g:14006**

Kleppe, Jan O. Liaison of families of subschemes in $\mathbf{P}^n$. **90m:14011**

Peternell, Thomas Singular surfaces and the rigidity of $\mathbf{P}_3$. **90a:14008**

Rego, C. J. Deformation of modules on curves and surfaces. **90a:14009**

Items with secondary classifications in 14D15

André, Michel Produit tensoriel et complexe cotangent. (English summary) [Tensor product and cotangent complex] **90m:13014**

Barlet, Daniel (*with* Peternell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. **90m:14006**

Catanese, F. Everywhere nonreduced moduli spaces. **90j:14013**

Greuel, Gert-Martin (*with* Karras, Ulrich) Families of varieties with prescribed singularities. **90d:32037**

Karras, Ulrich *see* **Greuel, Gert-Martin, 90d:32037**

Majadas Soto, Javier ★ Estructura de las álgebras locales noetherianas formalmente lisas. (Spanish) [The structure of formally smooth Noetherian local algebras] **90h:13013**

Mazur, Barry C. Deforming Galois representations. **90k:11057**

Oka, Mutsuo[1] On the deformation of certain type of algebraic varieties. **90e:14051**

Peternell, Thomas *see* **Barlet, Daniel; et al., 90m:14006**

Ran, Z. Enumerative geometry of singular plane curves. **90g:14039**

Schneider, Michael Hellmut *see* **Barlet, Daniel; et al., 90m:14006**

14D20 Algebraic moduli problems {For analytic moduli problems, see 32G13.}

Bhosle, Usha (*with* Ramanathan, Annamalai) Moduli of parabolic G-bundles on curves. **90h:14018**

Buium, Alexandru Birational moduli and nonabelian cohomology. **90a:14010**

Catanese, F. Everywhere nonreduced moduli spaces. **90j:14013**

Harbourne, Brian Iterated blow-ups and moduli for rational surfaces. **90b:14009**

Maruyama, Masaki On a compactification of a moduli space of stable vector bundles on a rational surface. **90a:14011**

Ramanathan, Annamalai *see* **Bhosle, Usha, 90h:14018**

Items with secondary classifications in 14D20

Bhosle, Usha Parabolic vector bundles on curves. **90f:14007**

Bolondi, Giorgio (*with* Migliore, J. C.) The structure of an even liaison class. **90b:14060**

Fujita, Takao Polarized manifolds of degree three and Δ-genus two. **90e:14037**

— Remarks on quasi-polarized varieties. **90i:14045**

Hulek, K. (*with* Le Potier, J.) Sur l'espace de modules des faisceaux semistables de rang 2, de classes de Chern $(0,3)$ sur $\mathbf{P}_2$. (English summary) [The moduli space of rank-two semistable sheaves of Chern classes $(0,3)$ on $\mathbf{P}_2$] **90j:14024**

Le Potier, J. *see* **Hulek, K., 90j:14024**

Luo, Tie Riemann-Roch type inequalities for nef and big divisors. **90i:14007**

Migliore, J. C. *see* **Bolondi, Giorgio, 90b:14060**

Murray, M. K. Stratifying monopoles and rational maps. **90i:32032**

O'Grady, Kieran G. On the Kodaira dimension of moduli spaces of abelian surfaces. **90m:14038**

Ramadas, T. R. (*with* Singer, I. M.; Weitsman, J.) Some comments on Chern-Simons gauge theory. **90m:58218**

Sekiguchi, Tsutomu How coarse the coarse moduli spaces for curves are! **90d:14026**

Singer, I. M. *see* **Ramadas, T. R.; et al., 90m:58218**

Tyurin, A. N. Symplectic structures on the moduli spaces of vector bundles on algebraic surfaces with $p_g > 0$. **90a:14020**

Viehweg, Eckart Weak positivity and the stability of certain Hilbert points. **90i:14037**

Vistoli, Angelo Intersection theory on algebraic stacks and on their moduli spaces. **90k:14004**

Weitsman, J. *see* **Ramadas, T. R.; et al., 90m:58218**

14D22 Fine structure of moduli spaces

Kirwan, Frances Moduli spaces of degree d hypersurfaces in $\mathbf{P}_n$. **90k:14006**

Laumon, Gérard Un analogue global du cône nilpotent. [A global analogue of the nilpotent cone] **90a:14012**

Tikhomirov, A. S. Smoothness of the moduli scheme of instanton vector bundles with $c_1 = 0$ and $c_2 = n$ on $\mathbf{P}^3$. **90k:14007**

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Balaji, V. Cohomology of certain moduli spaces of vector bundles. **90d:14020**

Brambila Paz, Leticia Moduli of homomorphisms of rank-2 vector bundles over a Riemann surface. (Spanish) **90f:14008**

Drezet, J.-M. (*with* Narasimhan, M. S.) Groupe de Picard des variétés de modules de fibrés semi-stables sur les courbes algébriques. [The Picard group of moduli varieties of semistable bundles over algebraic curves] **90d:14008**

Narasimhan, M. S. *see* **Drezet, J.-M., 90d:14008**

Nitsure, Nitin Cohomology of desingularization of moduli space of vector bundles. **90d:14019**

14D25 Geometric invariants [see also 14L30]

Bogomolov, F. A. Brauer groups of the fields of invariants of algebraic groups. **90k:14008**

Buium, Alexandru Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] **90b:14010**

Dolgachev, Igor (*with* Ortland, David) Point sets in projective spaces and theta functions. (French summary) **90i:14009**

Ellingsrud, Geir (*with* Strømme, Stein Arild) On the Chow ring of a geometric quotient. **90h:14019**

Fauntleroy, A. Invariant theory for linear algebraic groups. II. (char k arbitrary). **90a:14013**

— G.I.T. for general algebraic groups. **90j:14014**

— Quasi-projective orbit spaces for linear algebraic group actions. **90e:14010**

Fogarty, John Invariant differentials. **90a:14014**

Gómez-Mont, Xavier (*with* Kempf, George R.) Stability of meromorphic vector fields in projective spaces. **90d:14012**

Kempf, George R. *see* **Gómez-Mont, Xavier, 90d:14012**

Ortland, David *see* **Dolgachev, Igor, 90i:14009**

Reichstein, Zinovy Stability and equivariant maps. **90b:14011**

Strømme, Stein Arild *see* **Ellingsrud, Geir, 90h:14019**

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Andruskiewitsch, Nicolás On the complicatedness of the pair $(\mathfrak{g}, K)$. **90h:14064**

(Billuard, J.-R.) *see* **Dixmier, Jacques, 90m:15047**

Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] **90m:15047**

Knop, Friedrich Der kanonische Modul eines Invariantenrings. (English summary) [The canonical module of a ring of invariants] **90k:14053**

Le Bruyn, Lieven (*with* Procesi, Claudio) Semisimple representations of quivers. **90e:1604**

McCallum, William G. On the Shafarevich-Tate group of the Jacobian of a quotient of the Fermat curve. **90b:11059**

Neeman, Amnon Analytic questions in geometric invariant theory. **90g:32034**

Procèsi, Claudio *see* **Le Bruyn, Lieven, 90e:16048**

Shepherd-Barron, N. I. Invariant theory for S_5 and the rationality of M_6. **90b:14058**

— Apolarity and its applications. **90i:14029**

Tan, Lin An algorithm for explicit generators of the invariants of the basic G_a-actions. **90j:13018**

Ueno, Kenji Discriminants of curves of genus 2 and arithmetic surfaces. **90a:14040**

14D99 None of the above, but in this section

Items with secondary classifications in 14D99

Nakayama, Noboru On Weierstrass models. **90m:14030**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties beyond the example of Artin and Mumford] **90m:14012**

Crauder, Bruce (*with* Katz, Sheldon H.) Cremona transformations with smooth irreducible fundamental locus. **90b:14012**

Eneva, Gergana V. A Cremona correspondence between three-dimensional planes in a five-dimensional complex projective space. (Russian. English summary) **90g:14007**

Fujita, Takao Notes on quasi-polarized varieties. **90f:14003**

Katz, Sheldon H. *see* **Crauder, Bruce, 90b:14012**

Kollár, János Flops. **90e:14011**

Li, Wei[1] On a problem about face polynomials. **90k:14009**

Luo, Tie (*with* Luo, Zhao Hua) Factorization of birational morphisms with fiber dimensio bounded by 1. **90a:14015b**

Luo, Zhao Hua *see* **Luo, Tie, 90a:14015b**

Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis, 90m:14012**

Petrov, L. K. Linear inversion with respect to the cubic norm-surface V_2^3 in $\mathbf{P}_4$. (Bulgarian. English and Russian summaries) **90h:14020**

Sancho de Salas, M. T. Factorization theorem for birational morphisms and relations between the multiplicities. **90a:14015a**

Vitulli, Marie A. Homeomorphism versus isomorphism for varieties. **90b:14013**

Items with secondary classifications in 14E05

Abellanas, Manuel Multiple subvarieties of a generic projection. **90d:14014**

Farkas, Daniel R. Birational invariants of crystals and fields with a finite group of operators **90m:20053**

Iitaka, Shigeru Classification of reducible plane curves. **90a:14047**

Jijtchenko, A. B. On embedded tangent and secant varieties of projective algebraic varieties **90i:14055**

Johnston, Bernard The uniform bound problem for local birational nonsingular morphisms **90b:14018**

Takeuchi, Kiyohiko Some birational maps of Fano 3-folds. **90k:14041**

Tanaka, Tatsuji On the behaviours of Chow-forms under a linear projection. **90m:14005**

14E07 Structure of Cremona group and generalizations

Ein, Lawrence (*with* Shepherd-Barron, N. I.) Some special Cremona transformations. **90j:14015**

Nagata, Masayoshi Two-dimensional Jacobian conjecture. **90k:14010a**

— Some remarks on the two-dimensional Jacobian conjecture. **90k:14010b**

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14E10 General correspondences

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14E15 Global theory of singularities, resolution [see also 14B05, 32C45]

Cutkosky, Steven Dale On unique and almost unique factorization of complete ideals. **90j:14016a**

— On unique and almost unique factorization of complete ideals. II. **90j:14016b**

Finkelnberg, Hans (*with* Werner, Jürgen) Small resolutions of nodal cubic threefolds. **90i:14010**

Kahn, Constantin P. M. Reflexive modules on minimally elliptic singularities. **90i:14011**

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Villamayor h., Orlando Eugenio Constructiveness of Hironaka's resolution. **90b:14014**

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14E20 Coverings, fundamental group

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Fried, Michael D. (*with* Völklein, Helmut) Unramified abelian extensions of Galois covers. **90j:14018**

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Takeda, Yoshifumi Artin-Schreier coverings of algebraic surfaces. **90f:14004**

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Chądzyński, Jacek *see* **Charzyński, Zygmunt; et al., 90a:12004**

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14E22 Ramification problems [see also 11S15]

Abellanas, Manuel Multiple subvarieties of a generic projection. **90d:14014**

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14E25 Imbeddings

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14E30 Minimal models

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Hanamura, Masaki Stability of the pluricanonical maps of threefolds. **90e:14043**

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14E35 Results in dimension ≤ 3

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14E40 Local structure of maps: étale, flat, etc. [see also 13–XX, 14B25]

Johnston, Bernard The uniform bound problem for local birational nonsingular morphisms. **90b:14018**

14E99 None of the above, but in this section

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Abhyankar, Shreeram S. (*with* Li, Wei[1]) On the Jacobian conjecture: a new approach via Gröbner bases. **90i:13012**
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Kucharz, W. How to make vector bundles algebraic. **90m:14018**
Li, Wei[1] *see* **Abhyankar, Shreeram S., 90i:13012**

14Fxx Cohomology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 18F20, 46M20]

Ancona, Vincenzo Vector bundles on rational homogeneous varieties. (Italian) **90a:14018**
Ando, Tetsuya The normal bundles of singular fibres of conic bundles. **90i:14014**
Arrondo, Enrique (*with* Sols Lucía, Ignacio) Classification of smooth congruences of low degree. **90b:14019**
Balaji, V. Cohomology of certain moduli spaces of vector bundles. **90d:14020**
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Barth, Wolf (*with* Moore, Ross) Geometry in the space of Horrocks-Mumford surfaces. **90e:14015**
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Braam, Peter J. (*with* Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. **90i:32039**
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Elkik, R. Fibrés d'intersections et intégrales de classes de Chern. [Bundles of intersections and integrals of Chern classes] **90j:14010**
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Green, Mark L. Components of maximal dimension in the Noether-Lefschetz locus. **90e:14038**
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14F07 Weierstrass points in one and several variables; gap sheaves

Lax, R. F. Normal higher Weierstrass points. **90f:14009**

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Cukierman, Fernando Families of Weierstrass points. **90g:14013**

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14F10 Differentials and other special sheaves

Arapura, Donu Smoothable varieties with torsion free canonical sheaf. **90b:14026**

Hübl, Reinhold On the transitivity of regular differential forms. **90f:14010**

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Platte, Erich ★ Differentielle Methoden in der lokalen Algebra. (German) [Differential methods in local algebra] **90a:14022**

Waldi, Rolf *see* **Kunz, Ernst, 90a:14021**

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14F12 Riemann-Roch problems [See mainly 14C40, also 32L10, 57R20]

Items with secondary classifications in 14F12

Beĭlinson, A. A. (*with* Shekhtman, V. V.) Determinant bundles and Virasoro algebras. **90m:32048**

Bott, Raoul The topological constraints on analysis. **90j:01034**

Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] **90d:52020**

Ellia, Ph. Une remarque sur les systèmes linéaires sans points base d'hypersurfaces de l'espace projectif. [A remark on base-point-free linear systems of hypersurfaces in projective space] **90m:14008**

Gérardin, Paul Le théorème de Riemann-Roch et les corps de nombres algébriques. (English summary) [The Riemann-Roch theorem and algebraic number fields] **90m:11184**

Katz, Nicholas M. (*with* Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) **90i:14022**

Laumon, Gérard *see* **Katz, Nicholas M., 90i:14022**

Shekhtman, V. V. *see* **Beĭlinson, A. A., 90m:32048**

Witten, Edward Free fermions on an algebraic curve. **90j:14042**

14F15 Serre cohomology, K-theory [see also 13D15, 18F25, 19E20]

Pascual Gainza, P. Descente cubique pour la K-théorie des faisceaux cohérents et l'homologie de Chow. [Cubic descent for the K-theory of coherent sheaves and Chow homology] (*see* **90a:14024**)

Soulé, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beĭlinson's characteristic classes] **90h:14026**

Items with secondary classifications in 14F15

Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) **90c:14011**

Distler, Jacques (*with* Greene, B. R.; Kirklin, Kelley; Miron, Paul) Calculating endomorphism valued cohomology: singlet spectrum in superstring models. **90b:14061**

Geller, S. (*with* Weibel, Charles A.) $K(A,B,I)$. II. **90h:18013**

Greene, B. R. *see* **Distler, Jacques; et al., 90b:14061**

Kirklin, Kelley *see* **Distler, Jacques; et al., 90b:14061**

Miron, Paul *see* **Distler, Jacques; et al., 90b:14061**

Peternell, Mathias Algebraic and analytic cohomology of quasiprojective varieties. **90m:32025**

Weibel, Charles A. *see* **Geller, S., 90h:18013**

14F20 Grothendieck cohomology and topology [see also 18F10]

Deninger, Ch. Duality in the étale cohomology of one-dimensional proper schemes and generalizations. **90a:14023**

Guillén, F. (*with* Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperrésolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] **90a:14024**

Jannsen, Uwe On the Galois cohomology of l-adic representations attached to varieties over local or global fields. **90c:14010**

Jardine, J. F. Universal Hasse-Witt classes. **90h:14027**

Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. **90d:14022**

Katz, Nicholas M. Travaux de Laumon. (English) [Works of Laumon] **90h:14028**

Navarro Aznar, V. *see* **Guillén, F.; et al., 90a:14024**

Pascual Gainza, P. *see* **Guillén, F.; et al., 90a:14024**

Puerta Sales, Fernando *see* **Guillén, F.; et al., 90a:14024**

Thomason, R. W. Survey of algebraic vs. étale topological K-theory. **90h:14029**

Items with secondary classifications in 14F20

Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N. [The Tate-Poitou theorem for function fields of curves defined over N-dimensional local fields] **90m:11095**

Ford, Timothy J. On the Brauer group of $k[x_1,\cdots,x_n,1/f]$. **90d:13005**

van Geemen, Bert (*with* Werner, Jürgen) Nodal quintics in $\mathbf{P}^4$. **90m:14035**

Hirschowitz, André Cohérence et dualité sur le gros site de Zariski. [Coherence and duality on the big Zariski site] **90k:14012**

Jannsen, Uwe On the l-adic cohomology of varieties over number fields and its Galois cohomology. **90i:11064**

Nart, Enric The Bloch complex in codimension one and arithmetic duality. **90j:11057**

Oda, Takayuki Abelian l-adic representations associated with Selberg integrals. **90i:14013**

Raskind, Wayne Algebraic K-theory, étale cohomology and torsion algebraic cycles. **90d:14011**

Saito, Shuji Some observations on motivic cohomology of arithmetic schemes. **90k:11077**

Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**

Werner, Jürgen *see* **van Geemen, Bert, 90m:14035**

14F25 Classical real and complex cohomology

Dai, Xin Sheng A class of symmetric functions and Chern classes of projective varieties. **90h:14030**

Nagase, Masayoshi Hodge theory of singular algebraic curves. **90h:14031**

Items with secondary classifications in 14F25

Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel'd modules. **90g:11070**

Kirwan, Frances Moduli spaces of degree d hypersurfaces in $\mathbf{P}_n$. **90k:14006**

Shi, He On Chern characters of algebraic hypersurface with arbitrary singularities. **90h:14016**

14F30 p-adic cohomology, crystalline cohomology

Hyodo, Osamu A cohomological construction of Swan representations over the Witt ring. I. **90b:14027a**

— A cohomological construction of Swan representation over the Witt ring. II. **90b:14027b**

— On variation of Hodge-Tate structures. **90i:14019**

Items with secondary classifications in 14F30

Abrashkin, V. A. Modular crystal representations. **90b:14056**

Bauer, Ingrid (*with* Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. **90e:14019**

Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p-adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p-adic cohomologies] **90c:14012**

Étesse, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L-functions in crystalline cohomology] **90c:11042**

Jordan, Bruce W. (*with* Livné, Ron) Conjecture "epsilon" for weight $k > 2$. **90d:11057**

Kosarew, Siegmund *see* **Bauer, Ingrid, 90e:14019**

Livné, Ron *see* **Jordan, Bruce W., 90d:11057**

Suwa, Noriyuki (*with* Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. **90j:11053**

Yui, Noriko *see* **Suwa, Noriyuki, 90j:11053**

14F35 Homotopy theory

Cherenack, Paul Algebraic $\pi_2(S^2)$. **90a:14025**

Items with secondary classifications in 14F35

Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**

Jardine, J. F. The Leray spectral sequence. **90k:18020**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) **90c:14011**

Bauer, Ingrid (*with* Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. **90e:14019**

Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p-adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p-adic cohomologies] **90c:14012**

— A comparison theorem in p-adic cohomology. **90i:14020**

Esnault, Hélène On the Loday symbol in the Deligne-Beĭlinson cohomology. **90j:14025**
Guillén, F. Descente cubique de la cohomologie de de Rham algébrique. [Cubic descent of the algebraic de Rham cohomology] (*see* **90a:14024**)
Kosarew, Siegmund *see* **Bauer, Ingrid, 90e:14019**

Items with secondary classifications in 14F40

Gekeler, Ernst-Ulrich On the de Rham isomorphism for Drinfel′d modules. **90g:11070**
Guillén, F. (*with* Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperrésolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] **90a:14024**
Laurent, Yves Vanishing cycles and second microlocalization. **90c:32018**
Navarro Aznar, V. *see* **Guillén, F.; et al., 90a:14024**
Pascual Gainza, P. *see* **Guillén, F.; et al., 90a:14024**
Puerta Sales, Fernando *see* **Guillén, F.; et al., 90a:14024**
de Shalit, Ehud A formula for the cup product on Mumford curves. **90k:14017**

14F45 Topological properties

Kohno, Toshitake (*with* Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. **90a:14026**
Lanteri, Antonio (*with* Struppa, Daniele C.) Topological properties of cyclic coverings branched along an ample divisor. **90i:14021**
Oda, Takayuki *see* **Kohno, Toshitake, 90a:14026**
Struppa, Daniele C. *see* **Lanteri, Antonio, 90i:14021**

Items with secondary classifications in 14F45

tom Dieck, Tammo Symmetric homology planes. **90m:14033**
Friedman, Robert David Rank two vector bundles over regular elliptic surfaces. **90e:14016**
Goresky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**
Gretenkort, Jörg (*with* Kleinschmidt, Peter; Sturmfels, Bernd) On the existence of certain smooth toric varieties. **90j:14066**
Gurjar, R. V. (*with* Miyanishi, Masayoshi) Affine surfaces with $\overline{\kappa} \leq 1$. **90b:14044**
— A tribute to a work of C. P. Ramanujam. **90d:14038**
— (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. II. **90b:14045**
Kleinschmidt, Peter *see* **Gretenkort, Jörg; et al., 90j:14066**
MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**
Miyanishi, Masayoshi *see* **Gurjar, R. V., 90b:14044**
Peternell, Mathias Algebraische Varietäten und q-vollständige komplexe Räume. [Algebraic varieties and q-complete complex spaces] **90c:32027**
(Ramanujam, C. P.) *see* **Gurjar, R. V., 90d:14038**
Shastri, A. R. *see* **Gurjar, R. V., 90b:14045**
Sturmfels, Bernd *see* **Gretenkort, Jörg; et al., 90j:14066**

14F99 None of the above, but in this section

Guillén, F. Hyperrésolutions cubiques. [Cubic hyperresolutions] (*see* **90a:14024**)
Navarro Aznar, V. Théorèmes d'annulation. [Vanishing theorems] (*see* **90a:14024**)

Items with secondary classifications in 14F99

Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] **90m:14012**
Coutinho, S. C. (*with* Holland, M. P.) Differential operators on smooth varieties. **90m:16017**
Green, Mark L. (*with* Lazarsfeld, R.) Some results on the syzygies of finite sets and algebraic curves. **90d:14034**
Holland, M. P. *see* **Coutinho, S. C., 90m:16017**
Joshua, Roy Equivariant intersection cohomology—a survey. **90f:55012**
Kirwan, Frances ★ An introduction to intersection homology theory. **90e:55013**
Lazarsfeld, R. *see* **Green, Mark L., 90d:14034**
Mebkhout, Z. ★ Le formalisme des six opérations de Grothendieck pour les $\mathscr{D}_X$-modules cohérents. (French) [The formalism of Grothendieck's six operations for coherent $\mathscr{D}_X$-modules] **90m:32026**
Nagase, Masayoshi Remarks on the L^2-cohomology of singular algebraic surfaces. **90m:58005**
(Narváez-Macarro, L.) *see* **Mebkhout, Z., 90m:32026**
Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis, 90m:14012**
Orlik, Peter ★ Introduction to arrangements. **90i:32018**
Pardon, William The L_2-$\overline{\partial}$-cohomology of an algebraic surface. **90i:32014**
Schoen, Chad Cyclic covers of $\mathbf{P}^v$ branched along $v + 2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. **90m:14009**

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CBMS Regional Conference Series in Mathematics *see* **Orlik, Peter, 90i:32018**

14Gxx Special ground fields, arithmetic problems {For complex multiplication, see 11G15, 14K22. For automorphic and modular functions and forms, see also 11Fxx, 14K15.}

Items with secondary classifications in 14Gxx

(Brown, Martin Lawrence) *see* **Serre, Jean-Pierre, 90e:11086**
Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. **90e:11086**
(Waldschmidt, M.) *see* **Serre, Jean-Pierre, 90e:11086**

14G05 Rationality questions

Items with secondary classifications in 14G05

Manin, Yu. I. Letter to the editors: "Rational points on algebraic curves over function fields" [Izv. Akad. Nauk SSSR Ser. Mat. **27** (1963), 1397–1442; MR **28** #1199]. **90f:11039**
Salberger, Per On the arithmetic of conic bundle surfaces. **90m:11093a**
— Erratum: "On the arithmetic of conic bundle surfaces". **90m:11093b**

14G10 Zeta functions and related questions [see also 11R42, 11S40, 19F27]

Terasoma, Tomohide Complete intersections of hypersurfaces—the Fermat case and the quadric case. **90f:14011**

Items with secondary classifications in 14G10

Adolphson, Alan (*with* Sperber, Steven) On the degree of the L-function associated with an exponential sum. **90b:11134**
Brylinski, Jean-Luc Heights for local systems on curves. **90i:11066**
Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. **90f:11040**
— Higher regulators and Hecke L-series of imaginary quadratic fields. I. **90f:11041**
Ditters, E. J. (*with* Hoving, Simen J.) On the connected part of the covariant Tate p-divisible group and the ζ-function of the family of hyperelliptic curves $y^2 = 1 + \mu x^N$ modulo various primes. **90e:14047**
Étesse, Jean-Yves Rationalité et valeurs de fonctions L en cohomologie cristalline. (English summary) [Rationality and values of L-functions in crystalline cohomology] **90c:11042**
Grossman, Bernard Adelic conformal field theory. **90d:14023a**
— Erratum: "Adelic conformal field theory". **90d:14023b**
Henniart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ-function (following G. Anderson)] **90i:11055**
Hoving, Simen J. *see* **Ditters, E. J., 90e:14047**
Igusa, Jun-ichi b-functions and p-adic integrals. **90i:11140**
Jones, John William Iwasawa L-functions for multiplicative abelian varieties. **90m:11094**
Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**
Neukirch, Jürgen The Beĭlinson conjecture for algebraic number fields. **90f:11042**
Ramakrishnan, Dinakar Regulators, algebraic cycles, and values of L-functions. **90e:11094**
Schneider, Peter The μ-invariant of isogenies. **90g:11077**
Sperber, Steven *see* **Adolphson, Alan, 90b:11134**
Suwa, Noriyuki (*with* Yui, Noriko) Arithmetic of certain algebraic surfaces over finite fields. **90j:11053**
Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**
Ulmer, D. L. On universal elliptic curves over Igusa curves. **90m:11092**
Yui, Noriko *see* **Suwa, Noriyuki, 90j:11053**

14G13 Weil-Tate conjectures [see also 14Cxx]

Grossman, Bernard Membranes in string theory, trees, the Weil conjectures, and the Ramanujan numbers. **90b:14028**
Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**

Items with secondary classifications in 14G13

Katz, Nicholas M. Travaux de Laumon. (English) [Works of Laumon] **90h:14028**

14G15 Finite ground fields

García, Arnaldo (*with* Voloch, J. F.) Fermat curves over finite fields. **90a:14027**
— The curves $y^n = f(x)$ over finite fields. **90m:14014**
Katz, Nicholas M. (*with* Laumon, Gérard) Erratum: "The Fourier transform and upper bounds for exponential sums" [Inst. Hautes Études Sci. Publ. Math. No. 62 (1985), 361–418; MR 87i:14017]. (French) **90i:14022**
Laumon, Gérard *see* **Katz, Nicholas M., 90i:14022**
Michon, Jean-Francis Codes and curves. **90e:14020**
Perret, Marc Families of codes exceeding the Varshamov-Gilbert bound. (French summary) **90j:14026**
Voloch, J. F. A note on elliptic curves over finite fields. (French summary) **90f:14012**
— *see also* **García, Arnaldo, 90a:14027**

Items with secondary classifications in 14G15

Ando, Kiyoshi *see* **Mizuno, Hirobumi; et al., 90a:94043**
Blokhuis, A. *see* **Bruen, A. A.; et al., 90a:51010**
Bruen, A. A. (*with* Thas, J. A.; Blokhuis, A.) On M.D.S. codes, arcs in PG(n, q) with q even, and a solution of three fundamental problems of B. Segre. **90a:51010**
Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Algebraic complexities and algebraic curves over finite fields. **90g:11167**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90g:11167**
Ichijo, Takashi *see* **Mizuno, Hirobumi; et al., 90a:94043**
Ikeda, Kohei *see* **Mizuno, Hirobumi; et al., 90a:94043**
Katsman, G. L. (*with* Tsfasman, M. A.) A remark on algebraic geometric codes. **90e:94028**
Katz, Nicholas M. Travaux de Laumon. (English) [Works of Laumon] **90h:14028**
Koblitz, Neal Hyperelliptic cryptosystems. **90k:11165**
Mizuno, Hirobumi (*with* Ando, Kiyoshi; Ikeda, Kohei; Ichijo, Takashi) Code length and the zeta function. (Japanese. English summary) **90a:94043**
Roberts, Leslie G. (*with* Roitman, Moshe) On Hilbert functions of reduced and of integral algebras. **90c:13025**
Roitman, Moshe *see* **Roberts, Leslie G., 90c:13025**
Scharlau, Winfried Selbstduale Goppa-Codes. [Self-dual Goppa codes] **90i:11146**
Shokrollahi, Mohammad Amin Codes on Hermitian curves. **90b:11137**
Stichtenoth, Henning A note on Hermitian codes over GF(q^2). **90e:94030**
— Self-dual Goppa codes. **90a:11150**
Stöhr, Karl-Otto (*with* Viana, Paulo) A study of Hasse-Witt matrices by local methods. **90d:11074**

Sun, Qi (*with* Xiao, Rong) Two kinds of elliptic curves over F_q used to set up cryptosystems. (Chinese. English summary) **90m:11199**
Suwa, Noriyuki (*with* Yui, Noriko) Jacobi sums, Fermat motives and the Artin-Tate formula. **90h:11052**
Thas, J. A. *see* **Bruen, A. A.; et al., 90a:51010**
Toki, Keisuke On Hasse-Witt matrices of Fermat varieties. **90e:11031**
Tsfasman, M. A. *see* **Katsman, G. L., 90e:94028**
Vainsencher, I. On Stöhr-Voloch's proof of Weil's theorem. **90h:11051**
Viana, Paulo *see* **Stöhr, Karl-Otto, 90d:11074**
Voloch, J. F. On the number of values taken by a polynomial over a finite field. **90j:11138**
Wirtz, Michael On the parameters of Goppa codes. **90e:94031**
Wolfmann, J. New bounds on cyclic codes from algebraic curves. **90j:11140**
— The number of points on certain algebraic curves over finite fields. **90k:11030**
Xiao, Rong *see* **Sun, Qi, 90m:11199**
Yui, Noriko *see* **Suwa, Noriyuki, 90h:11052**

14G20 p-adic ground fields (local fields)

Chekhov, L. O. (*with* Mironov, A. D.; Zabrodin, A. V.) Multiloop calculations in p-adic string theory and Bruhat-Tits trees. **90k:14016**
van den Dries, Lou *see* **Scowcroft, Philip, 90g:14010**
Grossman, Bernard Adelic conformal field theory. **90d:14023a**
— Erratum: "Adelic conformal field theory". **90d:14023b**
Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. **90m:14015**
Mironov, A. D. *see* **Chekhov, L. O.; et al., 90k:14016**
Nguen Kkhak V′et Minimal models of algebraic curves. (Russian) **90h:14032**
Scowcroft, Philip (*with* van den Dries, Lou) On the structure of semialgebraic sets over p-adic fields. **90g:14010**
de Shalit, Ehud A formula for the cup product on Mumford curves. **90k:14017**
Van Steen, Guido The Schottky-Jung theorem for Mumford curves. (French summary) **90i:14023**
Zabrodin, A. V. *see* **Chekhov, L. O.; et al., 90k:14016**

Items with secondary classifications in 14G20

Brown, Martin Lawrence Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] **90a:11068**
Chekhov, L. O. (*with* Mironov, A. D.; Zabrodin, A. V.) Multiloop calculus in p-adic string theory and Bruhat-Tits trees. **90j:81178**
Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p-adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p-adic cohomologies] **90c:14012**
— A comparison theorem in p-adic cohomology. **90i:14020**
Douai, Jean-Claude Le théorème de Tate-Poitou pour les corps de fonctions des courbes définies sur les corps locaux de dimension N. [The Tate-Poitou theorem for function fields of curves defined over N-dimensional local fields] **90m:11095**
Fishman, V. M. On the structure of the Tate module. **90k:11073**
Frampton, P. H. (*with* Nishino, Hitoshi) Theory of p-adic closed strings. **90c:81178**
Freije, Richard M. A p-adic analogue of the Gauss-Bonnet theorem for certain Mumford curves. **90e:11089**
García, Arnaldo The curves $y^n = f(x)$ over finite fields. **90m:14014**
Grossman, Bernard Membranes in string theory, trees, the Weil conjectures, and the Ramanujan numbers. **90b:14028**
Henniart, Guy (*with* Mestre, J.-F.) Moyenne arithmético-géométrique p-adique. (English summary) [The p-adic arithmetic-geometric mean] **90g:11075**
Hyodo, Osamu On variation of Hodge-Tate structures. **90i:14019**
Igusa, Jun-ichi b-functions and p-adic integrals. **90i:11140**
Keating, Kevin Lifting endomorphisms of formal A-modules. **90e:14048**
Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**
Mestre, J.-F. *see* **Henniart, Guy, 90g:11075**
Mironov, A. D. *see* **Chekhov, L. O.; et al., 90j:81178**
Nishino, Hitoshi *see* **Frampton, P. H., 90c:81178**
van der Put, M. Uniformisation p-adique. [p-adic uniformization] **90e:11090**
Reversat, Marc Construction analytique (rigide) de variétés abéliennes. [Rigid analytic construction of abelian varieties] **90g:14028**
Saito, Takeshi The discriminants of curves of genus 2. **90c:11041**
Sen, Shankar The analytic variation of p-adic Hodge structure. **90b:11062**
de Shalit, Ehud Eichler cohomology and periods of modular forms on p-adic Schottky groups. **90j:11042**
Zabrodin, A. V. *see* **Chekhov, L. O.; et al., 90j:81178**

14G25 Global ground fields

Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**
Gillet, Henri (*with* Soulé, Christophe) Amplitude arithmétique. (English summary) [Arithmetic ampleness] **90a:14028**
Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. **90m:14017**
Shioda, Tetsuji Frey's elliptic curve as an elliptic surface over the Fermat curve. **90i:14024**
Soulé, Christophe *see* **Gillet, Henri, 90a:14028**

Items with secondary classifications in 14G25

Asada, Mamoru Indistinguishability of conjugacy classes of the pro-l mapping class group. **90b:14015**
Beukers, F. (*with* Top, Jaap) On oranges and integral points on certain plane cubic curves. **90h:11046**
Brown, Martin Lawrence Construction de hauteurs locales et globales sur les variétés algébriques. (English summary) [Construction of local and global heights on algebraic varieties] **90a:11068**
Cipra, Barry A. Getting a grip on elliptic curves. **90e:11092**
Colliot-Thélène, Jean-Louis (*with* Salberger, Per) Arithmetic on some singular cubic hypersurfaces. **90e:11091**
Frey, Gerhard Links between solutions of $A - B = C$ and elliptic curves. **90g:11069**
Gross, Benedict H. Local orders, root numbers, and modular curves. **90b:11053**
Henniart, Guy Cyclotomie et valeurs de la fonction Γ (d'après G. Anderson). [Cyclotomy and values of the Γ-function (following G. Anderson)] **90i:11055**
Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (*see* **90j:11004**)
Ihara, Yasutaka The Galois representation arising from $\mathbf{P}^1 - \{0, 1, \infty\}$ and Tate twists of even degree. **90k:11067**
Jannsen, Uwe On the Galois cohomology of l-adic representations attached to varieties over local or global fields. **90c:14010**
— On the l-adic cohomology of varieties over number fields and its Galois cohomology. **90i:11064**
Kamienny, S. p-torsion in elliptic curves over subfields of $\mathbf{Q}(\mu_p)$. **90a:11061**
Kolyvagin, V. A. The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. **90f:11035**
Manin, Yu. I. Letter to the editors: "Rational points on algebraic curves over function fields" [Izv. Akad. Nauk SSSR Ser. Mat. 27 (1963), 1397–1442; MR 28 #1199]. **90f:11039**
Mestre, J.-F. (*with* Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m-ième. [Semistable Weil curves with discriminant an mth power] **90g:11078**
Minchev, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) **90a:11065**
Moret-Bailly, Laurent Groupes de Picard et problèmes de Skolem. I, II. [Picard groups and Skolem problems. I, II] **90i:11065**
Müller, Hans Helmut (*with* Ströher, Harald; Zimmer, Horst G.) Complete determination of all torsion groups of elliptic curves with integral absolute invariant over quadratic and pure cubic fields. **90m:11086**
Murty, M. Ram Recent developments in elliptic curves. **90f:11036**
Oesterlé, J. Nouvelles approches du "théorème" de Fermat. [New approaches to Fermat's "theorem"] **90g:11038**
— *see also* **Mestre, J.-F., 90g:11078**
Saito, Shuji Arithmetic theory of arithmetic surfaces. **90f:11043**
Salberger, Per *see* **Colliot-Thélène, Jean-Louis, 90e:11091**
Silverman, Joseph H. Rational points on certain families of curves of genus at least 2. **90a:11067**
Ströher, Harald *see* **Müller, Hans Helmut; et al., 90m:11086**
Top, Jaap A remark on the rank of Jacobians of hyperelliptic curves over $\mathbf{Q}$ over certain elementary abelian 2-extensions. **90g:11079**
— *see also* **Beukers, F., 90h:11046**
Vojta, Paul A refinement of Schmidt's subspace theorem. **90f:11054**
— Mordell's conjecture over function fields. **90k:11076**
Zimmer, Horst G. *see* **Müller, Hans Helmut; et al., 90m:11086**

14G30 Real ground fields [see also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered]

Bochnak, J. (*with* Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] **90b:14030**
— (*with* Kucharz, W.) On real-algebraic models of smooth manifolds. **90a:14029**
— (*with* Kucharz, W.) K-theory of real algebraic surfaces and threefolds. **90k:14018**
Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. **90k:14019**
Buchner, M. A. (*with* Kucharz, W.) On relative real holomorphy rings. **90i:14025**
Coste, M. *see* **Bochnak, J.; et al., 90b:14030**
Cucker, Felipe Nash functions over real spectra. **90i:14026**
Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. **90k:14020**
Jadda, Zoubida Constructions de places réelles et géométrie semi-algébrique. [Constructions of real places and semi-algebraic geometry] **90e:14021**
Kharlamov, V. M. (*with* Viro, O. Ya.) Extensions of the Gudkov-Rohlin congruence. **90a:14030**
Knebusch, Manfred ★ Weakly semialgebraic spaces. **90j:14027**
Kucharz, W. How to make vector bundles algebraic. **90m:14018**
— A note on the Dubois-Efroymson dimension theorem. **90d:14024**
— Symplectic bilinear forms on affine real algebraic surfaces. **90e:14022**
— Symplectic complex bundles over real algebraic four-folds. **90k:14021**
— Sums of $2n$th powers of real meromorphic functions. **90f:14013**
— *see also* **Bochnak, J., 90a:14029; Buchner, M. A., 90i:14025** *and* **Bochnak, J., 90k:14018**
Madden, James J. Pierce-Birkhoff rings. **90m:14019**
Marinari, Maria Grazia Algebraic aspects of real geometry. (Italian) **90a:14031**
Robson, Robert O. Local semianalytic geometry. **90k:14022**
Roy, M.-F. *see* **Bochnak, J.; et al., 90b:14030**
Scheiderer, Claus Stability index of real varieties. **90g:14011**
— Quotients of semi-algebraic spaces. **90i:14027**
Schwartz, Niels The basic theory of real closed spaces. **90a:14032**
Shustin, E. I. New M- and $(M-1)$-curves of degree 8. **90a:14033**
Stengle, Gilbert A measure for semialgebraic sets related to Boolean complexity. **90b:14031**
Suvorov, P. Isotopic but not rigidly isotopic plane systems of straight lines. **90a:14034**
Viro, O. Ya. *see* **Kharlamov, V. M., 90a:14030**

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Conference:
Quadratic Forms and Real Algebraic Geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**
Corvallis, OR ★ Quadratic forms and real algebraic geometry. **90j:14028**

Quadratic forms and real algebraic geometry ★ Quadratic forms and real algebraic geometry. **90j:14028**
Real algebraic geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**
Symposium:
  Real Algebraic Geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**

Items with secondary classifications in 14G30

Arnborg, Stefan (*with* Feng, Huichun) Algebraic decomposition of regular curves. **90a:68042**
Arnol′d, V. I. Spaces of functions with moderate singularities. (Russian) **90m:58016**
Becker, Eberhard (*with* Gondard, Danielle) On rings admitting orderings and 2-primary chains of orderings of higher level. **90h:11033**
Brumfiel, G. W. The real spectrum compactification of Teichmüller space. **90b:32042**
Bujalance, E. (*with* Etayo Gordejuela, José Javier; Gamboa, J. M.; Martens, Gerriet) Minimal genus of Klein surfaces admitting an automorphism of a given order. **90b:30052**
Etayo Gordejuela, José Javier *see* **Bujalance, E.; et al., 90b:30052**
Feng, Huichun *see* **Arnborg, Stefan, 90a:68042**
Fiedler, Thomas Real points on complex plane curves. **90f:14022**
Fortuna, Elisabetta (*with* Galbiati, Margherita) Séparation de semi-algébriques. (English summary) [Separation of semi-algebraic sets] **90k:32025**
Galbiati, Margherita *see* **Fortuna, Elisabetta, 90k:32025** *and* **Real analytic and algebraic geometry, 90k:32001**
Gamboa, J. M. *see* **Bujalance, E.; et al., 90b:30052**
Gondard, Danielle *see* **Becker, Eberhard, 90h:11033**
Knebusch, Manfred (*with* Scheiderer, Claus) ★ Einführung in die reelle Algebra. (German) [Introduction to real algebra] **90m:12005**
Korchagin, A. B. (*with* Shustin, E. I.) Sixth-degree affine curves and smoothings of a nondegenerate sixth-order singular point. **90h:14043**
Kucharz, W. Invertible ideals in real holomorphy rings. **90j:12002**
Lam, K. Y. (*with* Yiu, P. Y. H.) Geometry of normed bilinear maps and the 16-square problem. **90g:11047**
Leahy, John V. (*with* Leahy, John V., IV) Real Hilbert rings and the real nullstellensatz. **90d:12001**
Leahy, John V., IV *see* **Leahy, John V., 90d:12001**
Li, Zi Sheng Real projective algebraic manifolds with a foliation. (Chinese. English summary) (Not in MR)
Martens, Gerriet *see* **Bujalance, E.; et al., 90b:30052**
Mnëv, N. E. The universality theorems on the classification problem of configuration varieties and convex polytopes varieties. **90a:52013**
Natanzon, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) **90b:14038**
— Prymians of real curves and their applications to the effectivization of Schrödinger operators. **90i:14031**
Ramanakoraisina, Rodolphe Bezout theorem for Nash functions. **90j:58006**
Savel′ev, I. V. Polyhedra and algebraic sets. **90h:55035**
Scheiderer, Claus *see* **Knebusch, Manfred, 90m:12005**
Scowcroft, Philip Some continuous Positivstellensätze. **90h:12005**
Seppälä, Mika (*with* Silhol, R.) Moduli spaces for real algebraic curves and real abelian varieties. **90k:14043**
Shustin, E. I. *see* **Korchagin, A. B., 90h:14043**
Silhol, R. *see* **Seppälä, Mika, 90k:14043**
Simon, Odile Aspects quantitatifs de Nullstellensätze et de Positivstellensätze. Nombres de Pythagore. [Quantitative aspects of Nullstellensätze and Positivstellensätze. Pythagorean numbers] **90f:11024**
(Tognoli, A.) *see* **Real analytic and algebraic geometry, 90k:32001**
Viro, O. Ya. Some integral calculus based on Euler characteristic. **90a:57029**
Wu, Wen Jun A mechanization method of geometry and its applications. III. Mechanical proving of polynomial inequalities and equation-solving. **90g:03012**
Yiu, P. Y. H. *see* **Lam, K. Y., 90g:11047**

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Conference:
  Real Analytic and Algebraic Geometry ★ Real analytic and algebraic geometry. **90k:32001**
Lecture Notes in Mathematics ★ Real analytic and algebraic geometry. **90k:32001**
Real analytic and algebraic geometry ★ Real analytic and algebraic geometry. **90k:32001**
Trento ★ Real analytic and algebraic geometry. **90k:32001**

14G99 None of the above, but in this section

Kang, Ming Chang Constructions of Brauer-Severi varieties and norm hypersurfaces. **90j:14029**

Items with secondary classifications in 14G99

Drinfel′d, V. G. On my paper: "Cohomology of compactified moduli varieties of F-sheaves of rank 2" [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI) 162 (1987), Avtorrorfn. Funkts. i Teor. Chisel. III, 107–158; MR 89b:11050]. (Russian) **90k:11072**
Marker, David Semialgebraic expansions of C. **90k:03034**
Umemura, Hiroshi On classical numbers. (Japanese) **90g:11099**

14Hxx Curves

Fulton, William ★ Algebraic curves. **90k:14023**
Griffiths, Phillip A. ★ Introduction to algebraic curves. **90i:14028**
(Weiss, Richard) *see* **Fulton, William, 90k:14023**
(Weltin, Kuniko) *see* **Griffiths, Phillip A., 90i:14028**
Yang, Kichoon ★ Compact Riemann surfaces and algebraic curves. **90e:14023**

Items with secondary classifications in 14Hxx

(Ballico, Edoardo) *see* **Problems: Algebraic geometry, 90j:14001**
(Ciliberto, Ciro) *see* **Problems: Algebraic geometry, 90j:14001**
Reyssat, É. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of Riemann surfaces] **90k:30085**

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Problems:
  Algebraic geometry Open problems. **90j:14001**

14H05 Algebraic functions [see also 14K20, 32G20]

Abhyankar, Shreeram S. (*with* Bajaj, Chanderjit) Automatic parameterization of rational curves and surfaces. III. Algebraic plane curves. **90h:14033**
Bajaj, Chanderjit *see* **Abhyankar, Shreeram S., 90h:14033**
García, Arnaldo On Weierstrass points on certain elementary abelian extensions of $k(x)$. **90m:14020**

Items with secondary classifications in 14H05

Paranjape, Kapil (*with* Ramanan, S.) On the canonical ring of a curve. **90b:14024**
Ramanan, S. *see* **Paranjape, Kapil, 90b:14024**
Turnbull, R. W. *see* **Wood, D. W., 90a:82081**
Wood, D. W. (*with* Turnbull, R. W.) $z^2 - 11z - 1$ as an algebraic invariant for the hard-hexagon model. **90a:82081**

14H10 Families, moduli (algebraic)

Ballico, Edoardo Theta-characteristics on curves in characteristic two. **90m:14021**
— (*with* Ellia, Ph.) On the existence of curves with maximal rank in $\mathbf{P}^n$. **90b:14033**
Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. **90g:14012**
Cornalba, Maurizio The singular locus of the moduli space of curves. (Italian. English summary) **90j:14030**
Cukierman, Fernando Families of Weierstrass points. **90g:14013**
Eisenbud, David (*with* Harris, Joseph Daniel) Irreducibility of some families of linear series with Brill-Noether number. I. **90a:14035**
— (*with* Harris, Joseph Daniel) Progress in the theory of complex algebraic curves. **90d:14025**
Ellia, Ph. Sur les lacunes d'Halphen. [On the Halphen lacunae] **90j:14031**
— *see also* **Ballico, Edoardo, 90b:14033**
Faber, Carel F. Some results on the codimension-two Chow group of the moduli space of stable curves. **90j:14032**
Harris, Joseph Daniel *see* **Eisenbud, David, 90a:14035** *and* **90d:14025**
Hirschowitz, André La rationalité des schémas de Hilbert de courbes gauches rationnelles suivant Katsylo. [The rationality of the Hilbert schemes of rational space curves, following Katsylo] **90j:14033**
Kang, Pyung-Lyun On the variety of plane curves of degree d with δ nodes and κ cusps. **90g:14014**
Mezzetti, Emilia (*with* Sacchiero, Gianni) Gonality and Hilbert schemes of smooth curves. **90j:14034**
Pareschi, Giuseppe Components of the Hilbert scheme of smooth space curves with the expected number of moduli. **90a:14036**
Ran, Z. Families of plane curves and their limits: Enriques' conjecture and beyond. **90e:14024**
Sacchiero, Gianni *see* **Mezzetti, Emilia, 90j:14034**
Sekiguchi, Tsutomu How coarse the coarse moduli spaces for curves are! **90d:14026**
Shepherd-Barron, N. I. Apolarity and its applications. **90i:14029**
Treger, Robert Plane curves with nodes. **90d:14027**

Items with secondary classifications in 14H10

Ballico, Edoardo The bound of the genus for reducible curves. **90c:14017**
— Postulation and gonality for projective curves. **90e:14033**
— On the Hilbert scheme of curves in a smooth quadric. **90d:14005**
Barth, Wolf (*with* Moore, Ross) On rational plane sextics with six tritangents. **90c:14018**
Ciliberto, Ciro (*with* Geramita, A. V.; Orecchia, Ferruccio) Remarks on a theorem of Hilbert-Burch. (Italian summary) **90a:13037**
Debarre, Olivier Sur le probleme de Torelli pour les varieties de Prym. [The Torelli problem for Prym varieties] **90b:14035**
Geramita, A. V. *see* **Ciliberto, Ciro; et al., 90a:13037**
Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective space. **90f:14002**
Griffiths, Phillip A. ★ Introduction to algebraic curves. **90i:14028**
Kleppe, Jan O. Liaison of families of subschemes in $\mathbf{P}^n$. **90m:14011**
Libgober, A. Invariants of plane algebraic curves via representations of the braid groups. **90a:14038**
Miret, J. M. (*with* Xambó-Descamps, S.) Geometry of complete cuspidal plane cubics. **90k:14059**
Moore, Ross *see* **Barth, Wolf, 90c:14018**
Orecchia, Ferruccio *see* **Ciliberto, Ciro; et al., 90a:13037**
Ran, Z. Enumerative geometry of singular plane curves. **90g:14039**
Rego, C. J. Deformation of modules on curves and surfaces. **90a:14009**
Seppälä, Mika (*with* Silhol, R.) Moduli spaces for real algebraic curves and real abelian varieties. **90k:14043**
Shepherd-Barron, N. I. Invariant theory for S_5 and the rationality of M_6. **90b:14058**
Silhol, R. *see* **Seppälä, Mika, 90k:14043**
(Weltin, Kuniko) *see* **Griffiths, Phillip A., 90i:14028**
Xambó-Descamps, S. *see* **Miret, J. M., 90k:14059**

14H15 Families, moduli (analytic) [see also 30F10, 32G15, 32G20]

Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian) **90e:14025**

Catepillán, Ximena Riemann matrix of a surface of genus 2. (Spanish. English summary) **90e:14026**

Harvey, W. J. Modular groups and representation spaces. **90a:14037**

Kato, Takao Subspaces of trigonal Riemann surfaces. **90c:14013**

Mukhi, Sunil An introduction to Riemann surfaces for physicists. (*see* **90f:81011**)

Mulase, Motohico KP equations, strings, and the Schottky problem. **90h:14034**

Semikhatov, A. M. A bosonic operator realization of the Krichever construction and *bc* systems on Riemann surfaces. **90e:14027**

Smit, Dirk-Jan Algebraic and arithmetic geometry in string theory. **90c:14014**

Ueno, Kimio (*with* Yamada, Hirofumi) Some observations on geometric representations of the superconformal algebras and a super analogue of the Mumford sheaves. **90d:14028**

Yamada, Hirofumi *see* **Ueno, Kimio, 90d:14028**

Zabrodin, A. V. Fermions on a Riemann surface and the Kadomtsev-Petviashvili equation. **90h:14035**

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Alvarez Gaumé, Luis (*with* Gómez, César; Reina, C.) New methods in string theory. **90j:81163a**

— (*with* Gómez, César; Reina, C.) New methods in string theory. **90j:81163b**

Bagger, Jonathan Strings and Riemann surfaces. **90k:81179**

Beĭlinson, A. A. (*with* Shekhtman, V. V.) Determinant bundles and Virasoro algebras. **90m:32048**

Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur le espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] **90d:58142**

Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. **90e:32023**

Cho, B. H. *see* **Park, S. U., 90f:81123**

Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. **90g:14012**

Cornalba, Maurizio The bosonic string from an algebro-geometric standpoint. **90j:81182**

Crnković, Č. (*with* Sotkov, G.; Stanishkov, M.) Genus-two partition functions for superconformal minimal models. **90i:81106**

Gómez, César *see* **Alvarez Gaumé, Luis; et al., 90j:81163a** *and* **90j:81163b**

Greuel, Gert-Martin (*with* Karras, Ulrich) Families of varieties with prescribed singularities. **90d:32037**

Harer, John L. The cohomology of the moduli space of curves. **90a:32026**

Holzapfel, R.-P. An arithmetic uniformization for arithmetic points of the plane by singular moduli. **90j:11054**

Karras, Ulrich *see* **Greuel, Gert-Martin, 90d:32037**

Killingback, T. P. Quantum Yang-Mills theory on Riemann surfaces and conformal field theory. **90e:53080**

Klimek, Sławomir (*with* Lesniewski, Andrzej) Global Laurent expansions on Riemann surfaces. **90j:30071**

La, HoSeong Cosmological constants and $\mathrm{SL}(2, C)$. **90d:81115**

Lechtenfeld, Olaf Three-loop vanishing of the superstring cosmological constant. **90i:81132**

Lesniewski, Andrzej *see* **Klimek, Sławomir, 90j:30071**

(**McArthur, I. N.**) *see* **Schlichenmaier, Martin, 90c:32033**

Meissner, K. A. (*with* Pokorski, S.) Polyakov bosonic strings. **90a:81149**

Morita, Shigeyuki Families of Jacobian manifolds and characteristic classes of surface bundles. II. **90a:57041**

Morozov, A. Yu. On the two-loop contribution to the superstring four-point function. **90i:81138**

— Point-wise vanishing of two-loop contributions to 1, 2, 3-point functions in the NSR formalism. **90k:81229**

Park, S. U. (*with* Cho, B. H.) The Riemann problem and the sewing of two discs. **90f:81123**

Parkes, Andrew The two loop superstring vacuum amplitude and canonical divisors. **90k:81238**

Pokorski, S. *see* **Meissner, K. A., 90a:81149**

Reina, C. *see* **Alvarez Gaumé, Luis; et al., 90j:81163a** *and* **90j:81163b**

Schlichenmaier, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. **90c:32033**

Segal, G. B. The definition of conformal field theory. **90d:58026**

Shekhtman, V. V. *see* **Beĭlinson, A. A., 90m:32048**

Shvarts, A. S. Fermionic string and universal moduli space. **90d:58063**

Smith, Roy Campbell (*with* Tapia-Recillas, H.) On curves of genus 7. (Spanish) **90a:14042**

Sonoda, Hidenori Sewing conformal field theories. I, II. **90f:81127**

Sotkov, G. *see* **Crnković, Č.; et al., 90i:81106**

Stanishkov, M. *see* **Crnković, Č.; et al., 90i:81106**

Takhtadzhyan, L. A. *see* **Zograf, P. G., 90j:32033**

Tapia-Recillas, H. *see* **Smith, Roy Campbell, 90a:14042**

Zamolodchikov, Aleksandr B. Vacuum Ward identities for higher genera. **90f:81133**

Zograf, P. G. (*with* Takhtadzhyan, L. A.) The geometry of moduli spaces of vector bundles over a Riemann surface. **90j:32033**

Zucchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. **90g:32027**

14H20 Singularities, local rings [see also 13Hxx]

Campillo López, Antonio (*with* Delgado de la Mata, Félix; Núñez Jiménez, Carolina A.) The arithmetic of Arf and saturated semigroups. Applications. (Spanish. English summary) **90d:14029**

Canonero, Gabriella On the inflexion points of quadrics with biflecnodes and a tacnode. (Italian. English summary) **90d:14030**

Carbonne, P. Sur la classification des branches. [On the classification of branches] **90m:14022**

Delgado de la Mata, Félix *see* **Campillo López, Antonio; et al., 90d:14029**

Gerdt, V. P. (*with* Kostov, N. A.; Kostova, Z. T.) Computer algebra and computation of Puiseux expansions of algebraic functions. **90m:14023**

Granja Barón, Angel (*with* Sánchez-Giralda, T.) Enriques diagram of a plane algebroid branch and classification of singularities. (Spanish) **90d:14031**

Kostov, N. A. *see* **Gerdt, V. P.; et al., 90m:14023**

Kostova, Z. T. *see* **Gerdt, V. P.; et al., 90m:14023**

Libgober, A. Invariants of plane algebraic curves via representations of the braid groups. **90a:14038**

Michel, Françoise Courbes polaires pour les singularités de type "arbre de Noël". (English summary) [Polar curves for "Christmas-tree" singularities] **90c:14015**

Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. **90h:14036**

— *see also* **Campillo López, Antonio; et al., 90d:14029**

Orevkov, S. Yu. The fundamental group of the complement of a plane algebraic curve. **90e:14028**

Perkins, Patrick T. Commutative subalgebras of the ring of differential operators on a curve. **90j:14035**

Sánchez-Giralda, T. *see* **Granja Barón, Angel, 90d:14031**

Sundet, Knut Lage Noether's theorem. **90e:14029**

Yoshihara, Hisao A note on the existence of some curves. **90a:14039**

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Ballico, Edoardo On singular curves in the case of positive characteristic. **90h:14042**

Diaz, Steven Irreducibility of the equiclassical locus. **90c:14002**

Goze, Michel (*with* Lutz, Robert) Représentation paramétrique locale des courbes planes. [Local parametric representation of plane curves] **90m:14003**

Granja Barón, Angel Apéry basis and polar invariants of plane curve singularities. **90j:14006**

Greuel, Gert-Martin (*with* Kröning, H.) Simple singularities in positive characteristic. **90k:14001**

Kang, Pyung-Lyun On the variety of plane curves of degree d with δ nodes and κ cusps. **90g:14014**

Kröning, H. *see* **Greuel, Gert-Martin, 90k:14001**

Lutz, Robert *see* **Goze, Michel, 90m:14003**

Martin, Bernd (*with* Pfister, Gerhard) Singularities of moduli spaces. **90m:14004**

Pfister, Gerhard *see* **Martin, Bernd, 90m:14004**

Pohl, Thomas Cornelius Torsion des Differentialmoduls von Kurvensingularitäten mit maximaler Hilbertfunktion. [Torsion of the module of differentials of curve singularities with maximal Hilbert function] **90a:13040**

Ran, Z. Families of plane curves and their limits: Enriques' conjecture and beyond. **90e:14024**

Teitelbaum, Jeremy The computational complexity of the resolution of plane curve singularities. **90j:14007**

Treger, Robert Plane curves with nodes. **90d:14027**

Urabe, Tohsuke Dynkin graphs and combinations of singularities on plane sextic curves. **90e:14035**

Weber, Claude A topological interpretation for the polar quotients of an algebraic plane curve singularity. **90d:32017**

14H25 Arithmetic ground fields [see also 11Dxx, 14Gxx]

Shabat, G. B. *see* **Voevodskiĭ, V. A., 90e:14030**

Ueno, Kenji Discriminants of curves of genus 2 and arithmetic surfaces. **90a:14040**

Voevodskiĭ, V. A. (*with* Shabat, G. B.) Equilateral triangulations of Riemann surfaces, and curves over algebraic number fields. **90e:14030**

Items with secondary classifications in 14H25

Coleman, Robert F. Computing stable reductions. **90h:11050**

Harbater, David Galois covers of an arithmetic surface. **90e:14013**

Kohno, Toshitake (*with* Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. **90a:14026**

Núñez Jiménez, Carolina A. Algebro-geometric properties of saturated rings. **90h:14036**

Oda, Takayuki *see* **Kohno, Toshitake, 90a:14026**

Parshin, A. N. The Bogomolov-Miyaoka-Yau inequality for the arithmetical surfaces and its applications. **90m:14017**

— Application of ramified coverings in the theory of Diophantine equations. **90j:11055**

Saito, Takeshi The discriminants of curves of genus 2. **90c:11041**

Sekiguchi, Tsutomu *see* **Sekino, Kaoru, 90d:14032**

Sekino, Kaoru (*with* Sekiguchi, Tsutomu) On the fields of definition for a curve and its Jacobian variety. **90d:14032**

Shioda, Tetsuji Arithmetic and geometry of Fermat curves. **90a:11037**

Silverman, Joseph H. Rational points on certain families of curves of genus at least 2. **90a:11067**

Vojta, Paul Dyson's lemma for products of two curves of arbitrary genus. **90k:11075**

— Mordell's conjecture over function fields. **90k:11076**

14H30 Coverings, fundamental group

Dzhuraev, O. Construction of the field of algebraic functions that corresponds to an n-sheeted covering of a sphere. (Russian) **90e:14031**

Kimura, Hideyuki *see* **Kuribayashi, Akikazu, 90k:14024**

Kuribayashi, Akikazu (*with* Kimura, Hideyuki) On Rauch's conjecture. (Japanese. English summary) **90k:14024**

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Asada, Mamoru Indistinguishability of conjugacy classes of the pro-l mapping class group. **90b:14015**

Beckmann, Sybilla Galois groups of fields of definition of solvable branched coverings. **90d:14015**

— Ramified primes in the field of moduli of branched coverings of curves. **90i:11063**

Coleman, Robert F. Torsion points on abelian étale coverings of $\mathbf{P}^1 - \{0, 1, \infty\}$. **90a:11064**

Debarre, Olivier Sur les variétés de Prym des courbes tétragonales. [Prym varieties of tetragonal curves] **90b:14034**

— Sur le probleme de Torelli pour les varieties de Prym. [The Torelli problem for Prym varieties] **90b:14035**
Fried, Michael D. Combinatorial computation of moduli dimension of Nielsen classes of covers. **90j:12007**
— (*with* Völklein, Helmut) Unramified abelian extensions of Galois covers. **90j:14018**
Ihara, Yasutaka Arithmetic analogues of braid groups and Galois representations. **90h:11105**
Kaneko, Masanobu Certain automorphism groups of pro-l fundamental groups of punctured Riemann surfaces. **90j:14019**
Katsarkov, L. V. (*with* Orlov, D. O.) Prym varieties of hyperelliptic curves and their applications to nonlinear equations. (Russian) **90k:14026**
Masterson, John T. Branched affine and projective structures on compact Riemann surfaces. **90b:30051**
Orlov, D. O. *see* **Katsarkov, L. V., 90k:14026**
Salvetti, Mario On the homotopy type of the complement to an arrangement of lines in $\mathbf{C}^2$. (Italian summary) **90b:32025**
Shabat, G. B. *see* **Voevodskiĭ, V. A., 90e:14030**
Stöhr, Karl-Otto (*with* Viana, Paulo) A study of Hasse-Witt matrices by local methods. **90d:11074**
Verdier, Jean-Louis New elliptic solitons. **90g:58053**
Viana, Paulo *see* **Stöhr, Karl-Otto, 90d:11074**
Voevodskiĭ, V. A. (*with* Shabat, G. B.) Equilateral triangulations of Riemann surfaces, and curves over algebraic number fields. **90e:14030**
Völklein, Helmut *see* **Fried, Michael D., 90j:14018**

14H35 Correspondences [see also 14Exx]

Kaji, Hajime On the Gauss maps of space curves in characteristic p. **90e:14032**
Martens, Henrik H. Mappings of closed Riemann surfaces. **90i:14030**

Items with secondary classifications in 14H35

Kani, E. (*with* Rosen, Michael I.) Idempotent relations and factors of Jacobians. **90h:14057**
Rosen, Michael I. *see* **Kani, E., 90h:14057**

14H40 Jacobians [see also 32G20]

Debarre, Olivier Sur les variétés de Prym des courbes tétragonales. [Prym varieties of tetragonal curves] **90b:14034**
— Sur le probleme de Torelli pour les varieties de Prym. [The Torelli problem for Prym varieties] **90b:14035**
Donagi, Ron The Schottky problem. **90a:14041**
van der Geer, Gerard On rank-1 degenerations of abelian varieties. **90k:14025**
Gunning, R. C. Analytic identities for theta functions. **90g:14015**
Katsarkov, L. V. (*with* Orlov, D. O.) Prym varieties of hyperelliptic curves and their applications to nonlinear equations. (Russian) **90k:14026**
Kempf, George R. Notes of the inversion of integrals. I. **90h:14037a**
— Notes on the inversion of integrals. II. **90h:14037b**
Little, John B. Translation manifolds and the Schottky problem. **90m:14024**
Muñoz Porras, José Ma. Geometric characterization of Jacobians and the Schottky equations. **90j:14036**
Natanzon, S. M. Prymians of real curves and their applications to the effectivization of Schrödinger operators. **90i:14031**
Orlov, D. O. *see* **Katsarkov, L. V., 90k:14026**
Pirola, Gian Pietro On the Néron-Severi groups of the surfaces of special divisors. **90j:14037**
Sekiguchi, Tsutomu *see* **Sekino, Kaoru, 90d:14032**
Sekino, Kaoru (*with* Sekiguchi, Tsutomu) On the fields of definition for a curve and its Jacobian variety. **90d:14032**
Smith, Roy Campbell (*with* Tapia-Recillas, H.) On curves of genus 7. (Spanish) **90a:14042**
— (*with* Varley, Robert) Deformations of singular points on theta divisors. **90g:14016**
Tapia-Recillas, H. *see* **Smith, Roy Campbell, 90a:14042**
Treibich, Armando Courbes elliptiques tracées sur une jacobienne généralisée. (English summary) [Elliptic curves in generalized Jacobians] **90a:14043**
Varley, Robert *see* **Smith, Roy Campbell, 90g:14016**

Items with secondary classifications in 14H40

Beauville, Arnaud (*with* Debarre, Olivier; Donagi, Ron; van der Geer, Gerard) Sur les functions thêta d'ordre deux et les singularités du diviseur thêta. (English summary) [On second-order theta functions and the singularities of the theta divisor] **90b:14053**
Belokolos, E. D. (*with* Ènol′skiĭ, V. Z.) Verdier's elliptic solitons and the Weierstrass reduction theory. **90h:14059**
Breen, L. The cube structure on the determinant bundle. **90k:14047**
Coleman, Robert F. Torsion points on abelian étale coverings of $\mathbf{P}^1 - \{0, 1, \infty\}$. **90a:11064**
Debarre, Olivier *see* **Beauville, Arnaud; et al., 90b:14053**
Donagi, Ron *see* **Beauville, Arnaud; et al., 90b:14053**
Ènol′skiĭ, V. Z. *see* **Belokolos, E. D., 90h:14059**
Ercolani, Nicholas (*with* Siggia, Eric D.) Painlevé property and geometry. **90i:58048**
Fay, John Schottky relations on $\frac{1}{2}(C - C)$. **90g:14026**
van der Geer, Gerard *see* **Beauville, Arnaud; et al., 90b:14053**
Hulek, K. (*with* Weintraub, Steven H.) Bielliptic abelian surfaces. **90b:14052**
Kanev, V. I. (*with* Katsarkov, L. V.) Universal properties of Prym varieties of singular curves. **90d:14045**
Katsarkov, L. V. *see* **Kanev, V. I., 90d:14045**
Khorozov, E. I. (*with* van Moerbeke, Pierre) The full geometry of Kowalewski's top and $(1, 2)$-abelian surfaces. **90d:58053**
Martens, Henrik H. Mappings of closed Riemann surfaces. **90i:14030**
van Moerbeke, Pierre *see* **Khorozov, E. I., 90d:58053**
Mulase, Motohico KP equations, strings, and the Schottky problem. **90h:14034**
Schilling, Randolph James Generalizations of the Neumann system. A curve theoretical approach. II. **90g:58050**
Schoen, Chad Cyclic covers of $\mathbf{P}^v$ branched along $v + 2$ hyperplanes and the generalized Hodge conjecture for certain abelian varieties. **90m:14009**
Semikhatov, A. M. Bosonization, τ-functions and operator formalism on Riemann surface **90d:81118**
— Sewing *bc* theories on Riemann surfaces in a bosonic operator formalism. **90d:81119**
Shiota, Takahiro The KP equation and the Schottky problem. (Japanese) **90d:58062**
Siggia, Eric D. *see* **Ercolani, Nicholas, 90i:58048**
Top, Jaap A remark on the rank of Jacobians of hyperelliptic curves over $\mathbf{Q}$ over certain elementary abelian 2-extensions. **90g:11079**
Van Steen, Guido The Schottky-Jung theorem for Mumford curves. (French summary) **90i:14023**
Verdier, Jean-Louis New elliptic solitons. **90g:58053**
Weintraub, Steven H. *see* **Hulek, K., 90b:14052**
Yamawaki, Noriaki Explicit actions of the theta groups for theta divisors on Jacobian surfaces. **90j:14052**

14H45 Special curves

Amasaki, Mutsumi Curves in $\mathbf{P}^3$ whose ideals are simple in a certain numerical sense. **90f:14014**
— Integral arithmetically Buchsbaum curves in $\mathbf{P}^3$. **90c:14016**
Ballico, Edoardo The bound of the genus for reducible curves. **90c:14017**
— Postulation and gonality for projective curves. **90e:14033**
— A remark on linear series on general k-gonal curves. (Italian summary) **90f:14015**
— (*with* Ellia, Ph.) On projections of ruled and Veronese surfaces. **90f:14016**
— (*with* Bolondi, Giorgio; Miró-Roig, Rosa M.) Numerical invariants of rank-2 arithmetically Buchsbaum sheaves. **90h:14038**
Barth, Wolf (*with* Moore, Ross) On rational plane sextics with six tritangents. **90c:14018**
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— (*with* Migliore, J. C.) Buchsbaum liaison classes. **90g:14017**
— *see also* **Ballico, Edoardo; et al., 90h:14038**
Chiantini, Luca (*with* Orecchia, Ferruccio) Plane sections of arithmetically normal curves in $\mathbf{P}^3$. **90j:14038**
Ciliberto, Ciro (*with* Sernesi, Edoardo) Curves on surfaces of degree $2r - \delta$ in $\mathbf{P}^r$. **90c:14019**
Coppens, Marc Smooth curves possessing many linear systems g_n^1. **90a:14045**
Craighero, P. C. (*with* Gattazzo, R.) No rational nonsingular quartic curve $\mathscr{C}_4 \subset \mathbf{P}^3$ can be set-theoretic complete intersection on a cubic surface. (Italian summary) **90j:14039**
Delgado de la Mata, Félix The symmetry of the Weierstrass generalized semigroups and affine embeddings. **90e:14034**
Dolcetti, Alberto Halphen's gaps for space curves of submaximum genus. (French summary **90c:14020**
Donagi, Ron (*with* Morrison, David R.) Linear systems on $K3$-sections. **90a:14046**
Ellia, Ph. *see* **Ballico, Edoardo, 90f:14016**
Fiorentini, Mario (*with* Lascu, Alexandru T.) Subbundles of maximal degree of the normal bundle of algebraic space curves almost complete intersection of special type. (Italian summary) **90b:14036**
Gattazzo, R. *see* **Craighero, P. C., 90j:14039**
Geramita, A. V. (*with* Migliore, J. C.) Hyperplane sections of a smooth curve in $\mathbf{P}^3$. **90h:14039**
— (*with* Migliore, J. C.) Hyperplane sections of a smooth curve in $\mathbf{P}^3$. **90k:14027**
— (*with* Migliore, J. C.) Generators for the ideal of an arithmetically Buchsbaum curve. **90f:14017**
Gimigliano, Alessandro A construction of projectively normal curves. **90h:14040**
Giuffrida, Salvatore The Hilbert function of a curve lying on a smooth cubic surface. **90m:14025**
— The Hilbert function of curves on certain smooth quartic surfaces. **90i:14032**
Hefez, Abramo Nonreflexive curves. **90k:14028**
Idà, Monica Maximal rank and minimal generation. **90f:14018**
Iitaka, Shigeru Classification of reducible plane curves. **90a:14047**
Lascu, Alexandru T. *see* **Fiorentini, Mario, 90b:14036**
Laytimi, Fatima Courbe des trisécantes à une courbe elliptique lisse de $\mathbf{P}^3$. (English summary) [The trisecant curve to a smooth elliptic curve in $\mathbf{P}^3$] **90f:14019**
Loose, Frank On the graded Betti numbers of plane algebraic curves. **90h:14041**
Maggioni, Renato (*with* Ragusa, Alfio) Construction of smooth curves of $\mathbf{P}^3$ with assigned Hilbert function and generators' degrees. **90k:14029**
Martens, Gerriet On curves on $K3$ surfaces. **90m:14026**
Migliore, J. C. *see* **Geramita, A. V., 90f:14017; Bolondi, Giorgio, 90g:14017; Geramita, A. V., 90h:14039** *and* **90k:14027**
Miró-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) **90m:14027**
— Unobstructed arithmetically Buchsbaum curves. **90j:14040**
— On the theorem of Castelnuovo for Buchsbaum curves. **90f:14020**
— *see also* **Ballico, Edoardo; et al., 90h:14038**
Moore, Ross *see* **Barth, Wolf, 90c:14018**
Morrison, David R. *see* **Donagi, Ron, 90a:14046**
Orecchia, Ferruccio *see* **Chiantini, Luca, 90j:14038**
Păsărescu, Ovidiu On the existence of algebraic curves in projective n-space. **90c:14021**
Ragusa, Alfio *see* **Maggioni, Renato, 90k:14029**
Ramanan, S. Curves and their canonical imbeddings. **90a:14048**
Rathmann, Jürgen The genus of curves in $\mathbf{P}^4$ and $\mathbf{P}^5$. **90i:14033**
Schreyer, Frank-Olaf Green's conjecture for general p-gonal curves of large genus. **90j:14041**
Sernesi, Edoardo *see* **Ciliberto, Ciro, 90c:14019**
Strano, Rosario On the hyperplane sections of curves. (Italian. English summary) **90i:1403**
Urabe, Tohsuke Dynkin graphs and combinations of singularities on plane sextic curves. **90e:14035**

Vestri, Nerina A noteworthy property of the rational skew quadric equipped with two stationary points. (Italian. English summary) **90b:14037**

Viana, Paulo Classicality of trigonal curves of genus five. **90f:14021**

Vinnikov, Victor Determinantal representations of algebraic curves. **90c:14022**

— Complete description of determinantal representations of smooth irreducible curves. **90m:14028**

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Abhyankar, Shreeram S. What is the difference between a parabola and a hyperbola? **90a:14074**

Aluffi, Paolo The characteristic numbers of smooth plane cubics. **90b:14066**

Au-Yang, Helen (*with* McCoy, Barry M.; Perk, Jacques H. H.; Tang, Shuang) Solvable models in statistical mechanics and Riemann surfaces of genus greater than one. **90b:82059**

Ballico, Edoardo On the Hilbert scheme of curves in a smooth quadric. **90d:14005**

— (*with* Lanteri, Antonio) An indecomposable rank-2 vector bundle the complete linear system of whose determinant consists of hyperelliptic curves. (Italian summary) **90j:14022**

— On the order of projective curves. **90g:14004**

Bershadskiĭ, M. A. (*with* Radul, A. O.) Conformal field theories with additional Z_N symmetry. **90c:81153**

Canonero, Gabriella On the inflexion points of quadrics with biflecnodes and a tacnode. (Italian. English summary) **90d:14030**

Coppens, Marc Weierstrass points on trigonal curves. I. The ramification points. **90g:14012**

Crnković, Č. (*with* Sotkov, G.; Stanishkov, M.) Minimal models on hyperelliptic surfaces. **90d:81109**

Ferrarese, Giorgio (*with* Romagnoli, Daniela) Elliptic curves on the general hypersurface of degree 7 of $\mathbf{P}^4$. **90a:14058**

Hitchin, N. J. Harmonic maps from T^2 to S^3. **90b:58051**

Kaji, Hajime On the Gauss maps of space curves in characteristic p. **90e:14032**

Kato, Takao Subspaces of trigonal Riemann surfaces. **90c:14013**

Lanteri, Antonio *see* **Ballico, Edoardo, 90j:14022**

Lax, R. F. Normal higher Weierstrass points. **90f:14009**

McCoy, Barry M. *see* **Au-Yang, Helen; et al., 90b:82059**

Perk, Jacques H. H. *see* **Au-Yang, Helen; et al., 90b:82059**

Radul, A. O. *see* **Bershadskiĭ, M. A., 90c:81153**

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Shioda, Tetsuji Arithmetic and geometry of Fermat curves. **90a:11037**

Sotkov, G. *see* **Crnković, Č.; et al., 90d:81109**

Stanishkov, M. *see* **Crnković, Č.; et al., 90d:81109**

Sundet, Knut Lage Noether's theorem. **90e:14029**

Tang, Shuang *see* **Au-Yang, Helen; et al., 90b:82059**

Yoshihara, Hisao A note on the existence of some curves. **90a:14039**

14H50 Space curves (use only for secondary classification) [see also 14H45]

Items with secondary classifications in 14H50

Amasaki, Mutsumi Curves in $\mathbf{P}^3$ whose ideals are simple in a certain numerical sense. **90f:14014**

— Integral arithmetically Buchsbaum curves in $\mathbf{P}^3$. **90c:14016**

Ballico, Edoardo (*with* Bolondi, Giorgio; Miró-Roig, Rosa M.) Numerical invariants of rank-2 arithmetically Buchsbaum sheaves. **90h:14038**

— (*with* Ellia, Ph.) On the existence of curves with maximal rank in $\mathbf{P}^n$. **90b:14033**

— (*with* Bolondi, Giorgio) Deficiency modules and specializations. **90d:14033**

Bolondi, Giorgio A note on the postulation of maximal rank curves. (French and Italian summaries) **90b:14021**

— Minimal models of curves. (Italian) **90a:14044**

— (*with* Migliore, J. C.) Configurations of linear projective subvarieties. **90i:14053**

— (*with* Miró-Roig, Rosa M.) Two-codimensional Buchsbaum subschemes of $\mathbf{P}^n$ via their hyperplane sections. **90m:14046**

— (*with* Migliore, J. C.) Buchsbaum liaison classes. **90g:14017**

— *see also* **Ballico, Edoardo, 90d:14033** *and* **90h:14038**

Chiantini, Luca (*with* Orecchia, Ferruccio) Plane sections of arithmetically normal curves in $\mathbf{P}^3$. **90j:14038**

Craighero, P. C. (*with* Gattazzo, R.) No rational nonsingular quartic curve $\mathscr{C}_4 \subset \mathbf{P}^3$ can be set-theoretic complete intersection on a cubic surface. (Italian summary) **90j:14039**

Dolcetti, Alberto Halphen's gaps for space curves of submaximum genus. (French summary) **90c:14020**

Ellia, Ph. Sur les lacunes d'Halphen. [On the Halphen lacunae] **90j:14031**

— *see also* **Ballico, Edoardo, 90b:14033**

Fiorentini, Mario (*with* Lascu, Alexandru T.) Subbundles of maximal degree of the normal bundle of algebraic space curves almost complete intersection of special type. (Italian summary) **90b:14036**

Gattazzo, R. *see* **Craighero, P. C., 90j:14039**

Geramita, A. V. (*with* Migliore, J. C.) Hyperplane sections of a smooth curve in $\mathbf{P}^3$. **90h:14039**

— (*with* Migliore, J. C.) On the ideal of an arithmetically Buchsbaum curve. **90d:14053**

— (*with* Migliore, J. C.) Hyperplane sections of a smooth curve in $\mathbf{P}^3$. **90k:14027**

— (*with* Migliore, J. C.) Generators for the ideal of an arithmetically Buchsbaum curve. **90f:14017**

Giuffrida, Salvatore The Hilbert function of a curve lying on a smooth cubic surface. **90m:14025**

Greco, Silvio Remarks on the postulation of zero-dimensional subschemes of projective space. **90f:14002**

Hirschowitz, André La rationalité des schémas de Hilbert de courbes gauches rationnelles suivant Katsylo. [The rationality of the Hilbert schemes of rational space curves, following Katsylo] **90j:14033**

Huckaba, Sam Analytic spread modulo an element and symbolic Rees algebras. **90k:13006**

Idà, Monica Maximal rank and minimal generation. **90f:14018**

Jaffe, David B. On set theoretic complete intersections in $\mathbf{P}^3$. **90m:14048a**

— Erratum: "On set theoretic complete intersections in $\mathbf{P}^3$". **90m:14048b**

Lascu, Alexandru T. *see* **Fiorentini, Mario, 90b:14036**

Laytimi, Fatima Courbe des trisécantes à une courbe elliptique lisse de $\mathbf{P}^3$. (English summary) [The trisecant curve to a smooth elliptic curve in $\mathbf{P}^3$] **90f:14019**

Maggioni, Renato (*with* Ragusa, Alfio) Construction of smooth curves of $\mathbf{P}^3$ with assigned Hilbert function and generators' degrees. **90k:14029**

Migliore, J. C. *see* **Geramita, A. V., 90d:14053; 90f:14017; Bolondi, Giorgio, 90g:14017; Geramita, A. V., 90h:14039; Bolondi, Giorgio, 90i:14053** *and* **Geramita, A. V., 90k:14027**

Miró-Roig, Rosa M. Some remarks on quasi-complete intersection space curves. (Italian summary) **90m:14027**

— Unobstructed arithmetically Buchsbaum curves. **90j:14040**

— On the theorem of Castelnuovo for Buchsbaum curves. **90f:14020**

— *see also* **Ballico, Edoardo; et al., 90h:14038** *and* **Bolondi, Giorgio, 90m:14046**

Orecchia, Ferruccio *see* **Chiantini, Luca, 90j:14038**

Pareschi, Giuseppe Components of the Hilbert scheme of smooth space curves with the expected number of moduli. **90a:14036**

Popescu, Sorin On the splitting criterion of Chiantini and Valabrega. **90c:14009**

Ragusa, Alfio *see* **Maggioni, Renato, 90k:14029**

Strano, Rosario A characterization of complete intersection curves in $\mathbf{P}^3$. **90b:14062**

Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. **90g:32025**

Valabrega, Paolo Subcanonical curves, bundles and reflexive sheaves on $\mathbf{P}^3$. (Italian. English summary) **90j:14070**

Vestri, Nerina A noteworthy property of the rational skew quadric equipped with two stationary points. (Italian. English summary) **90b:14037**

14H99 None of the above, but in this section

Ballico, Edoardo On singular curves in the case of positive characteristic. **90h:14042**

— (*with* Bolondi, Giorgio) Deficiency modules and specializations. **90d:14033**

Bolondi, Giorgio *see* **Ballico, Edoardo, 90d:14033**

Craighero, P. C. A remark on Abhyankar's space lines. (Italian summary) **90c:14023**

Daigle, D. A property of polynomial curves over a field of positive characteristic. **90k:14030**

Fiedler, Thomas Real points on complex plane curves. **90f:14022**

Green, Mark L. (*with* Lazarsfeld, R.) Some results on the syzygies of finite sets and algebraic curves. **90d:14034**

Katz, Sheldon H. (*with* Sederberg, Thomas W.) Genus of the intersection curve of two rational surface patches. **90d:14035**

Koh, Jee-Heub (*with* Stillman, Michael) Linear syzygies and line bundles on an algebraic curve. **90i:14035**

Korchagin, A. B. (*with* Shustin, E. I.) Sixth-degree affine curves and smoothings of a nondegenerate sixth-order singular point. **90h:14043**

Lazarsfeld, R. *see* **Green, Mark L., 90d:14034**

Libgober, A. Theta characteristics on singular curves, spin structures and Rohlin theorem. **90e:14036**

Matsumoto, Toshio On some remarks about analytic differentials of higher order of a compact Riemann surface. **90i:14036**

Natanzon, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) **90b:14038**

Sederberg, Thomas W. *see* **Katz, Sheldon H., 90d:14035**

Shustin, E. I. *see* **Korchagin, A. B., 90h:14043**

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Witten, Edward Free fermions on an algebraic curve. **90j:14042**

Items with secondary classifications in 14H99

Anderson, D. C. *see* **Waggenspack, W. N., 90d:14001**

Arbarello, Enrico (*with* De Concini, C.; Kac, V. G.) The infinite wedge representation and the reciprocity law for algebraic curves. **90i:22034**

Bujalance, E. (*with* Bujalance, J. A.; Martínez, Ernesto) On the automorphism group of hyperelliptic Klein surfaces. **90a:30130**

— (*with* Etayo Gordejuela, José Javier; Gamboa, J. M.; Martens, Gerriet) Minimal genus of Klein surfaces admitting an automorphism of a given order. **90b:30052**

— (*with* Gromadzki, Grzegorz) On nilpotent groups of automorphisms of Klein surfaces. **90e:20044**

Bujalance, J. A. *see* **Bujalance, E.; et al., 90a:30130**

Charney, R. M. (*with* Cohen, Frederick R.) A stable splitting for the mapping class group. **90a:55021**

Cohen, Frederick R. *see* **Charney, R. M., 90a:55021**

Cucker, Felipe (*with* Pardo, L. M.; Raimondo, M.; Recio Muñiz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. **90j:14020**

Da Silva Menezes, Maria Lucia Infinite genus curves with hyperelliptic ends. **90i:58155**

De Concini, C. *see* **Arbarello, Enrico; et al., 90i:22034**

Donaldson, S. Complex curves and surgery. **90k:57041**

Etayo Gordejuela, José Javier *see* **Bujalance, E.; et al., 90b:30052**

Gamboa, J. M. *see* **Bujalance, E.; et al., 90b:30052**

Giuffrida, Salvatore On the transversality of two surfaces in $\mathbf{P}^3$. (Italian. English summary) **90d:14007**

Gromadzki, Grzegorz *see* **Bujalance, E., 90e:20044**

Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. **90c:32042**

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14Jxx Surfaces and higher-dimensional varieties

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Algebraic geometry Open problems. **90j:14001**

14J05 Picard group

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14J10 Families, moduli, classification: algebraic theory

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Harbourne, Brian Iterated blow-ups and moduli for rational surfaces. **90b:14009**
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14J15 Moduli, classification: analytic theory [see also 32J15]

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14J17 Singularities of surfaces

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Martsinkovsky, Alex Almost split sequences and Zariski differentials. **90i:14038**
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14J20 Arithmetic ground fields [see also 11Dxx, 14Gxx]

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14J25 Special surfaces, general

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14J26 Rational and ruled surfaces

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Halanay, Elena Normal surfaces of degree 6 in $\mathbf{P}^n$. **90k:14033**

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Iitaka, Shigeru Classification of reducible plane curves. **90a:14047**

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14J27 Elliptic surfaces

Besana, G. (*with* Olivotto, P.) Numerical very-ampleness criteria for divisors on some algebraic surfaces. (Italian) **90i:14044**

Gurjar, R. V. (*with* Shastri, A. R.) On the rationality of complex homology 2-cells. II. **90b:14045**

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Naruki, Isao $K3$ surfaces related to root systems in E_8. **90d:14040**

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14J28 *K*3-surfaces and Enriques surfaces

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Saito, Kyoji Algebraic surfaces for regular systems of weights. **90a:14054**
Shepherd-Barron, N. I. Apolarity and its applications. **90i:14029**
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14J29 Surfaces of general type

Tokunaga, Hiro-o On algebraic surfaces and threefolds whose cotangent bundles are generated by global sections. **90b:14046**
Usui, Sampei Examples of semi-stable degenerations of pairs of Kunev surfaces and their canonical curves. **90b:14047**

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14J30 Special 3-folds [see also 14E05]

Alzati, Alberto Fano 3-folds in $G(1,4)$. (Italian. English summary) **90h:14053**
Ambrogio, Elisabetta (*with* Romagnoli, Daniela) On the nonrationality of the Fano variety of $\mathbf{P}^5$, which contains three planes two by two meeting in one point. **90d:14042**
Borcea, Ciprian Nodal quintic threefolds and nodal octic surfaces. **90k:14038**
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— The infinitesimal Abel-Jacobi mapping and moving the $\mathcal{O}(2)+\mathcal{O}(-4)$ curve. **90j:14047**
Cutkosky, Steven Dale On Fano 3-folds. **90d:14043**
Ferrarese, Giorgio (*with* Romagnoli, Daniela) Elliptic curves on the general hypersurface of degree 7 of $\mathbf{P}^4$. **90a:14058**
Finat, J. Introduction to the algebraic geometry of complex projective threefolds with ordinary singularities. (Spanish. English summary) **90b:14048**
Fletcher, A. R. Inverting Reid's exact plurigenera formula. **90f:14023**
Furushima, Mikio (*with* Nakayama, Noboru) The family of lines on the Fano threefold V_5. **90k:14039**
Ganoulis, N. (*with* Lazarides, G.; Shafi, Q.) Classification of three generation superstring models according to their discrete symmetries. **90h:14054**
van Geemen, Bert (*with* Werner, Jürgen) Nodal quintics in $\mathbf{P}^4$. **90m:14035**
— *see also* **Werner, Jürgen, 90m:14036**
Green, Paul S. (*with* Hübsch, Tristan) $(1,1)^3$ couplings in Calabi-Yau threefolds. **90g:14022**
Hanamura, Masaki Stability of the pluricanonical maps of threefolds. **90e:14043**
Hübsch, Tristan *see* **Green, Paul S., 90g:14022**
Iskovskikh, V. A. Double projection from a line onto Fano 3-folds of the first kind. **90j:14048**
Kalara, Sunil (*with* Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N=2$ superconformal models. **90k:14040**
Katsuki, Yasuhiko (*with* Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_8 and Z_{12} orbifold models. **90h:14055**
Kawamura, Yoshiharu *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Kim, Jae Kwan (*with* Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from $N=2$ Landau-Ginzburg superconformal theories. **90j:14049**
Kobayashi, Tatsuo *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Kollár, János *see* **Clemens, Herbert; et al., 90j:14046**
Lazarides, G. *see* **Ganoulis, N.; et al., 90h:14054**
Lykken, Joseph *see* **Kalara, Sunil, 90k:14040**
Manaresi, Mirella Ruled threefolds homeomorphic to $\mathbf{P}^2\times\mathbf{P}^1$ and their divisors. **90g:14023**
Miyanishi, Masayoshi Algebraic characterizations of the affine 3-space. **90a:14059**
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Mukai, Shigeru Biregular classification of Fano 3-folds and Fano manifolds of coindex 3. **90g:14024**
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Ono, Yasuji *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Park, Chung Joo *see* **Kim, Jae Kwan; et al., 90j:14049**
Romagnoli, Daniela *see* **Ferrarese, Giorgio, 90a:14058** *and* **Ambrogio, Elisabetta, 90d:14042**
Shafi, Q. *see* **Ganoulis, N.; et al., 90h:14054**
Shin, Kil-Ho 3-dimensional Fano varieties with canonical singularities. **90j:14050**
Takeuchi, Kiyohiko Some birational maps of Fano 3-folds. **90k:14041**
Tanioka, Kazutaka *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Werner, Jürgen (*with* van Geemen, Bert) New examples of threefolds with $c_1=0$. **90m:14036**
— *see also* **van Geemen, Bert, 90m:14035**
Yoon, Yongsung *see* **Kim, Jae Kwan; et al., 90j:14049**

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Alzati, Alberto (*with* Bertolini, Marina) On the problem of rationality for some cubic complexes. **90e:14053**
Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5. **90c:14024**
Bardelli, Fabio A footnote to a paper by A. Grothendieck (the Grothendieck generalized Hodge conjecture for some geometric families of abelian threefolds): "Hodge's general conjecture is false for trivial reasons" [Topology **8** (1969), 299–303; MR **40** #5624]. (Italian summary) **90k:14049**
Beltrametti, M. (*with* Biancofiore, Aldo; Sommese, A. J.) Projective n-folds of log-general type. I. **90h:14056**
Bertolini, Marina *see* **Alzati, Alberto, 90e:14053**
Biancofiore, Aldo *see* **Beltrametti, M.; et al., 90h:14056**
Candelas, P. (*with* Lütken, C. A.; Schimmrigk, R.) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds [Nuclear Phys. B **306** (1988), no. 1, 113–136; MR 89g:53102]. (*see* **90g:83004**)
— (*with* Green, Paul S.; Hübsch, Tristan) Finite distance between distinct Calabi-Yau manifolds. **90b:53052**
Distler, Jacques (*with* Greene, B. R.; Kirklin, Kelley; Miron, Paul) Calculating endomorphism valued cohomology: singlet spectrum in superstring models. **90b:14061**
Finat, J. Polar classes for a threefold with ordinary singularities. (Spanish. English summary) **90a:14075**
Finkelnberg, Hans (*with* Werner, Jürgen) Small resolutions of nodal cubic threefolds. **90i:14010**
Font, A. (*with* Ibáñez, L. E.; Quevedo, F.) $Z_N\times Z_M$ orbifolds and discrete torsion. **90b:81120**
Gepner, Doron The exact structure of Calabi-Yau compactification. **90k:83089**
— Yukawa couplings for Calabi-Yau string compactification. **90g:81232**
Green, Paul S. (*with* Hübsch, Tristan) Connecting moduli spaces of Calabi-Yau threefolds. **90a:14050**
— (*with* Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi-Yau complete intersections. **90h:14067**
— *see also* **Candelas, P.; et al., 90b:53052**
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(Grothendieck, A.) *see* **Bardelli, Fabio, 90k:14049**
Hübsch, Tristan *see* **Green, Paul S., 90a:14050; Candelas, P.; et al., 90b:53052** *and* **Green, Paul S.; et al., 90h:14067**
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Kanev, V. I. Hypersurfaces in rational scrolls. **90a:14060**
Kirklin, Kelley *see* **Distler, Jacques; et al., 90b:14061**
Kollár, János Flops. **90e:14011**
Latorre, J. I. (*with* Lütken, C. A.) Constrained $\mathbf{C}\mathbf{P}^n$ models. **90c:14030**
Lee, Ronnie (*with* Weintraub, Steven H.) On certain Siegel modular varieties of genus two and levels above two. **90d:11067**
Lütken, C. A. A large class of Calabi-Yau vacua. **90m:14049**
— Recent progress in Calabi-Yauology. **90i:14056**
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Meissner, K. A. (*with* Pawełczyk, Jacek) Hierarchy of Yukawa couplings from orbifold compactification. **90a:81150**
Miron, Paul *see* **Distler, Jacques; et al., 90b:14061**
Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10. **90b:14039**
Nakano, Tetsuo Regular actions of semisimple algebraic groups on projective threefolds, especially SL(2). **90i:14051**
Nakayama, Noboru On Weierstrass models. **90m:14030**
Nori, Madhav V. Cycles on the generic abelian threefold. **90k:14003**
Pawełczyk, Jacek *see* **Meissner, K. A., 90a:81150**
Peternell, Thomas Compactifications of $\mathbf{C}^3$. II. **90b:32052**
Quevedo, F. *see* **Font, A.; et al., 90b:81120**
Schimmrigk, R. *see* **Candelas, P.; et al., (90g:83004)**
Shenderovskiĭ, V. G. The ramification divisor of the Gauss mapping for the Θ-divisor of the intermediate Jacobian of a double $\mathbf{P}^3$ of index 2 with a singularity. **90g:14027**
Sommese, A. J. On the nonemptiness of the adjoint linear system of a hyperplane section of a threefold. **90j:14011**
— *see also* **Beltrametti, M.; et al., 90h:14056**
Tokunaga, Hiro-o On algebraic surfaces and threefolds whose cotangent bundles are generated by global sections. **90b:14046**
Voisin, Claire Sur la jacobienne intermédiaire du double solide d'indice deux. [On the intermediate Jacobian of the double solid of index two] **90f:14029**
Weintraub, Steven H. *see* **Lee, Ronnie, 90d:11067**
Werner, Jürgen *see* **Finkelnberg, Hans, 90i:14010**
Wilson, P. M. H. Calabi-Yau manifolds with large Picard number. **90h:14044**

14J35 Special 4-folds [see also 14E05]

Items with secondary classifications in 14J35

Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5. **90c:14024**
Mukai, Shigeru Biregular classification of Fano 3-folds and Fano manifolds of coindex 3. **90g:14024**
Sankaran, G. K. Stable quintuples and terminal quotient singularities. **90j:14017**

14J40 Special n-folds

Ådlandsvik, Bjørn Varieties with an extremal number of degenerate higher secant varieties. **90g:14025**
Ando, Tetsuya Pluricanonical systems of algebraic varieties of general type of dimension ≤ 5. **90c:14024**
Beltrametti, M. (*with* Sommese, A. J.) On normal Gorenstein polarized varieties of sectional genus 3 and 4. **90b:14049**
— (*with* Biancofiore, Aldo; Sommese, A. J.) Projective n-folds of log-general type. I. **90h:14056**
Biancofiore, Aldo *see* **Beltrametti, M.; et al., 90h:14056**
D'Souza, Harry A general result on local spannedness. **90f:14024**

Fania, Maria Lucia (*with* Sommese, A. J.) On the projective classification of smooth n-folds with n even. **90j:14051**
Fujita, Takao Classification of polarized manifolds of sectional genus two. **90c:14025**
— Remarks on quasi-polarized varieties. **90i:14045**
Kanev, V. I. Hypersurfaces in rational scrolls. **90a:14060**
Rollero, Aldo On certain varieties associated to binary forms of degrees 3, 4. (Italian. English summary) **90d:14044**
Sommese, A. J. *see* **Beltrametti, M., 90b:14049; 90h:14056** *and* **Fania, Maria Lucia, 90j:14051**
Tsuji, Hajime Logarithmic Fano manifolds are simply connected. **90b:14050**

Items with secondary classifications in 14J40

Andreatta, Marco (*with* Sommese, A. J.) On the adjunction mapping for singular projective varieties. **90c:14026**
Ballico, Edoardo Spanned and ample vector bundles with low Chern numbers. **90j:14023**
Fujita, Takao Notes on quasi-polarized varieties. **90f:14003**
— Polarized manifolds of degree three and Δ-genus two. **90e:14037**
Futaki, Akito ★ Kähler-Einstein metrics and integral invariants. **90a:53053**
Gattazzo, R. A criterion for a rational projectively normal variety to be almost-factorial. (Italian summary) **90c:14029**
Gómez-Mont Avalos, Carlos On the local Torelli theorem for extreme varieties. (Spanish) **90g:14018**
Kawazumi, Nariya Folding surface bundles of genus 2. **90f:57031**
Lanteri, Antonio (*with* Struppa, Daniele C.) On projective manifolds with two $\mathbf{P}$-bundle structures. **90g:14009**
Laszlo, Yves Théorème de Torelli générique pour les intersections complètes de trois quadriques de dimension paire. [A generic Torelli theorem for complete intersections of three quadrics of even dimension] **90i:14006**
Mukai, Shigeru Biregular classification of Fano 3-folds and Fano manifolds of coindex 3. **90g:14024**
Sato, Ei-ichi A variety which contains a $\mathbf{P}^1$-fiber space as an ample divisor. **90h:14013**
Sommese, A. J. On the nonemptiness of the adjoint linear system of a hyperplane section of a threefold. **90j:14011**
— *see also* **Andreatta, Marco, 90c:14026**
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Yüan, Hsi Shih On the generalization of Kummer surfaces. **90j:32032**

14J50 Automorphisms of surfaces and higher-dimensional special varieties

Petrie, Ted Algebraic automorphisms of smooth affine surfaces. **90b:14051**

Items with secondary classifications in 14J50

tom Dieck, Tammo Symmetric homology planes. **90m:14033**
Holzapfel, R.-P. Chern number relations for locally abelian Galois coverings of algebraic surfaces. **90f:14005**
Katsuki, Yasuhiko (*with* Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_8 and Z_{12} orbifold models. **90h:14055**
Kawamura, Yoshiharu *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Kobayashi, Tatsuo *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. **90b:32053**
Oguiso, Keiji On Jacobian fibrations on the Kummer surfaces of the product of nonisogenous elliptic curves. **90j:14044**
Ohtsubo, Noriyasu *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Ono, Yasuji *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Rusjan, E. (*with* Senjanović, G.; Šokorac, A.) Calabi-Yau manifold of four generations. **90h:14070**
Senjanović, G. *see* **Rusjan, E.; et al., 90h:14070**
Serrano, Fernando Divisors of bielliptic surfaces and embeddings in $\mathbf{P}^4$. **90m:14029**
Šokorac, A. *see* **Rusjan, E.; et al., 90h:14070**
Tanioka, Kazutaka *see* **Katsuki, Yasuhiko; et al., 90h:14055**
Weintraub, Steven H. Symmetries of simply-connected four-manifolds, especially algebraic surfaces. **90g:57030**
Yüan, Hsi Shih On the generalization of Kummer surfaces. **90j:32032**

14J99 None of the above, but in this section

Andreatta, Marco (*with* Sommese, A. J.) On the adjunction mapping for singular projective varieties. **90c:14026**
Sommese, A. J. *see* **Andreatta, Marco, 90c:14026**
Tovar, Luis Manuel Planes and hypersurfaces in $\mathbf{P}^5$. (Spanish) **90f:14025**
Xu, Ming Wei Coordinate gap and biduality. **90f:14026**

Items with secondary classifications in 14J99

Besana, G. (*with* Olivotto, P.) Numerical very-ampleness criteria for divisors on some algebraic surfaces. (Italian) **90i:14044**
Furushima, Mikio Normal affine surfaces properly dominated by $\mathbf{C} \times \mathbf{C}^*$. **90k:14011**
Nadel, Alan Michael Multiplier ideal sheaves and existence of Kähler-Einstein metrics of positive scalar curvature. **90k:32061**
Olivotto, P. *see* **Besana, G., 90i:14044**

14Kxx Abelian varieties and schemes

14K05 Algebraic theory

Debarre, Olivier Images lisses d'une variété abélienne simple. (English summary) [Smooth images of a simple abelian variety] **90f:14027**
Fujimoto, Yoshio A remark on the decomposition of abelian fiber spaces over curves. **90m:14037**
Kani, E. (*with* Rosen, Michael I.) Idempotent relations and factors of Jacobians. **90h:14057**
Katsura, Toshiyuki (*with* Oort, Frans) Supersingular abelian varieties of dimension two or three and class numbers. **90c:14027**
Kempf, George R. Multiplication over abelian varieties. **90a:14061**
Lange, Herbert (*with* Narasimhan, M. S.) Squares of ample line bundles on abelian varieties. **90h:14058**
Narasimhan, M. S. *see* **Lange, Herbert, 90h:14058**
Ohbuchi, Akira A note on the normal generation of ample line bundles on abelian varieties. **90a:14062a**
— A note on the projective normality of special line bundles on abelian varieties. **90a:14062b**
— Some criteria for reducible abelian varieties. **90a:14063**
Oort, Frans *see* **Katsura, Toshiyuki, 90c:14027**
Rosen, Michael I. *see* **Kani, E., 90h:14057**
Yamawaki, Noriaki Explicit actions of the theta groups for theta divisors on Jacobian surfaces. **90j:14052**

Items with secondary classifications in 14K05

Barsotti, Iacopo A new look for thetas. **90j:14054**
Bertin, José Sur une formule de Shioda et Mitani. (English summary) [On a formula of Shioda and Mitani] **90k:14046**
Kempf, George R. Linear systems on abelian varieties. **90d:14046**
— Notes of the inversion of integrals. I. **90h:14037a**
— Notes on the inversion of integrals. II. **90h:14037b**
Oort, Frans Endomorphism algebras of abelian varieties. **90j:11049**

14K07 Elliptic curves, one-dimensional theory

Items with secondary classifications in 14K07

Beukers, F. (*with* Top, Jaap) On oranges and integral points on certain plane cubic curves. **90h:11046**
Cipra, Barry A. Getting a grip on elliptic curves. **90e:11092**
Frey, Gerhard Links between elliptic curves and solutions of $A - B = C$. **90i:11059**
— Links between solutions of $A - B = C$ and elliptic curves. **90g:11069**
Fujiwara, Yasushi On divisibilities of special values of real analytic Eisenstein series. **90e:11070**
Grayson, Daniel R. The arithogeometric mean. **90g:11071**
Hindry, M. Minoration de hauteurs et analyse diophantienne sur les courbes elliptiques. [Bounding heights from below and Diophantine analysis on elliptic curves] (*see* **90j:11004**)
Hulek, K. Elliptische Kurven, abelsche Flächen und das Ikosaeder. [Elliptic curves, abelian surfaces and the icosahedron] **90h:14023**
Kaji, Hajime On the vector bundles whose endomorphisms yield Azumaya algebras of cyclic type. **90d:14022**
Kamienny, S. p-torsion in elliptic curves over subfields of $\mathbf{Q}(\mu_p)$. **90a:11061**
— Torsion points on elliptic curves over fields of low degree. **90j:11052**
Keating, Kevin Lifting endomorphisms of formal A-modules. **90e:14048**
Kolyvagin, V. A. The Mordell-Weil and Shafarevich-Tate groups for Weil elliptic curves. **90f:11035**
Kraus, Alain Quelques remarques à propos des invariants c_4, c_6 et Δ d'une courbe elliptique. [Some remarks about the invariants c_4, c_6 and Δ of an elliptic curve] **90j:11045**
Laurent, Michel Une nouvelle démonstration du théorème d'isogénie, d'après D. V. et G. V. Choodnovsky. [A new proof of the isogeny theorem, following D. V. and G. V. Chudnovsky] **90k:11094**
Laytimi, Fatima Courbe des trisécantes à une courbe elliptique lisse de $\mathbf{P}^3$. (English summary) [The trisecant curve to a smooth elliptic curve in $\mathbf{P}^3$] **90f:14019**
Mestre, J.-F. (*with* Oesterlé, J.) Courbes de Weil semi-stables de discriminant une puissance m-ième. [Semistable Weil curves with discriminant an mth power] **90g:11078**
Müller, Hans Helmut (*with* Ströher, Harald; Zimmer, Horst G.) Torsion groups of elliptic curves with integral j-invariant over quadratic fields. **90e:11085**
Murty, M. Ram Recent developments in elliptic curves. **90f:11036**
Oesterlé, J. *see* **Mestre, J.-F., 90g:11078**
Parish, James L. Rational torsion in complex-multiplication elliptic curves. **90k:11069**
Parshin, A. N. Application of ramified coverings in the theory of Diophantine equations. **90j:11055**
Shioda, Tetsuji Frey's elliptic curve as an elliptic surface over the Fermat curve. **90i:14024**
— Mordell-Weil lattices and Galois representation. I. **90m:11087**
— Mordell-Weil lattices and Galois representation. II, III. **90m:11088**
Silverman, Joseph H. Recent (and not so recent) developments in the arithmetic theory of elliptic curves. **90g:11074**
Ströher, Harald *see* **Müller, Hans Helmut; et al., 90e:11085**
Top, Jaap *see* **Beukers, F., 90h:11046**
Ulmer, D. L. On universal elliptic curves over Igusa curves. **90m:11092**
Voloch, J. F. A note on elliptic curves over finite fields. (French summary) **90f:14012**
Zimmer, Horst G. *see* **Müller, Hans Helmut; et al., 90e:11085**

14K10 Algebraic moduli, classification

Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. **90k:14042**
Hulek, K. (*with* Weintraub, Steven H.) Bielliptic abelian surfaces. **90b:14052**
O'Grady, Kieran G. On the Kodaira dimension of moduli spaces of abelian surfaces. **90m:14038**
Seppälä, Mika (*with* Silhol, R.) Moduli spaces for real algebraic curves and real abelian varieties. **90k:14043**
Silhol, R. *see* **Seppälä, Mika, 90k:14043**
Weintraub, Steven H. *see* **Hulek, K., 90b:14052**

Items with secondary classifications in 14K10

Barth, Wolf (*with* Moore, Ross) Geometry in the space of Horrocks-Mumford surfaces. **90e:14015**

Donagi, Ron The Schottky problem. **90a:14041**

Hulek, K. Elliptische Kurven, abelsche Flächen und das Ikosaeder. [Elliptic curves, abelian surfaces and the icosahedron] **90h:14023**

Katsura, Toshiyuki (*with* Oort, Frans) Supersingular abelian varieties of dimension two or three and class numbers. **90c:14027**

Khorozov, E. I. (*with* van Moerbeke, Pierre) The full geometry of Kowalewski's top and $(1,2)$-abelian surfaces. **90d:58053**

Little, John B. Translation manifolds and the Schottky problem. **90m:14024**

van Moerbeke, Pierre *see* **Khorozov, E. I., 90d:58053**

Moore, Ross *see* **Barth, Wolf, 90e:14015**

Oort, Frans *see* **Katsura, Toshiyuki, 90c:14027**

Teitelbaum, Jeremy On Drinfel′d's universal formal group over the p-adic upper half plane. **90j:11050**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 14Gxx]

Green, William Heights in families of abelian varieties. **90k:14044**

Nadel, Alan Michael The nonexistence of certain level structures on abelian varieties over complex function fields. **90e:14044**

Items with secondary classifications in 14K15

Andriĭchuk, V. I. Cohomology of the group of ideal classes and generalized Jacobians. (Ukrainian. Russian summary) **90j:11047**

Chai, Ching-Li Arithmetic compactification of the Siegel moduli space. **90k:14042**

Coleman, Robert F. A remark on kernels of reduction. **90a:11062**

Flach, Matthias Periods and special values of the hypergeometric series. **90h:11065**

Frey, Gerhard Links between elliptic curves and solutions of $A - B = C$. **90i:11059**

Fujiwara, Yasushi On divisibilities of special values of real analytic Eisenstein series. **90e:11070**

Gillard, Roland Étude d'une famille modulaire de variétés abéliennes. [Study of a modular family of abelian varieties] **90k:11070**

Grant, David Coates-Wiles towers in dimension two. **90f:11038**

Holzapfel, R.-P. An arithmetic uniformization for arithmetic points of the plane by singular moduli. **90j:11054**

Jones, John William Iwasawa L-functions for multiplicative abelian varieties. **90m:11094**

Kamienny, S. Torsion points on elliptic curves over fields of low degree. **90j:11052**

Katsura, Toshiyuki (*with* Oort, Frans) Supersingular abelian varieties of dimension two or three and class numbers. **90c:14027**

Kirschner, R. Boundary reparametrizations as additional moduli for the string propagator. **90h:81167**

van der Linden, F. J. Integer valued polynomials over function fields. **90a:11142**

Masser, D. W. Specializations of finitely generated subgroups of abelian varieties. **90d:11073**

Mestre, J.-F. Courbes hyperelliptiques à multiplications réelles. [Hyperelliptic curves with real multiplication] **90h:11047**

Müller, Hans Helmut (*with* Ströher, Harald; Zimmer, Horst G.) Torsion groups of elliptic curves with integral j-invariant over quadratic fields. **90e:11085**

Ooe, Takeshi (*with* Top, Jaap) On the Mordell-Weil rank of an abelian variety over a number field. **90g:11076**

Oort, Frans *see* **Katsura, Toshiyuki, 90c:14027**

Petri, Monica Arithmetic classification of Kuga fiber varieties of quaternion type. **90k:11071**

Schneider, Peter The μ-invariant of isogenies. **90g:11077**

de Shalit, Ehud Eichler cohomology and periods of modular forms on p-adic Schottky groups. **90j:11042**

Ströher, Harald *see* **Müller, Hans Helmut; et al., 90e:11085**

Top, Jaap *see* **Ooe, Takeshi, 90g:11076**

Voloch, J. F. A note on elliptic curves over finite fields. (French summary) **90f:14012**

Wintenberger, Jean-Pierre Motifs et ramification pour les points d'ordre fini des variétés abéliennes. [Motives and ramification for the points of finite order of abelian varieties] **90h:14063**

Zarkhin, Yu. G. Torsion of abelian varieties over GL(2)-extensions of number fields. **90i:11061**

Zimmer, Horst G. *see* **Müller, Hans Helmut; et al., 90e:11085**

14K20 Analytic theory; abelian integrals and differentials

Belokolos, E. D. (*with* Ènol′skiĭ, V. Z.) Verdier's elliptic solitons and the Weierstrass reduction theory. **90h:14059**

Bonora, L. (*with* Matone, Marco; Rinaldi, M.) Bases of meromorphic differentials on genus g Riemann surfaces and applications. **90k:14045**

Ènol′skiĭ, V. Z. *see* **Belokolos, E. D., 90h:14059**

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14K22 Complex multiplication [see also 11G15]

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14K25 Theta functions

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14K30 Picard schemes, higher Jacobians

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14K99 None of the above, but in this section

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14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 17B50]

Abrashkin, V. A. Modular crystal representations. **90b:14056**

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14L10 Group varieties

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14L15 Group schemes

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14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Vistoli, Angelo Characteristic classes of principal bundles in algebraic intersection theory. **90k:14052**

Items with secondary classifications in 14L17

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14L20 Finite group schemes

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14L25 Pro-algebraic group schemes

Wang, Jian Pan Inverse limits of affine group schemes. **90g:14029**

14L30 Group actions on varieties or schemes [see also 14D25]

Andruskiewitsch, Nicolás On the complicatedness of the pair $(\mathfrak{g}, K)$. **90h:14064**
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14M07 Low-codimension problems [see also 14Cxx]

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14M12 Determinantal varieties

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14M15 Grassmannians, Schubert varieties [see also 51M35]

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14M17 Homogeneous spaces [see also 32M10, 53C30, 57T15]

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Bai, Yuan Huai Composition factors with multiplicity 1 of sheaf cohomology groups on G/B. (Chinese) **90g:20060**
Brylinski, Ranee Kathryn Limits of weight spaces, Lusztig's q-analogs, and fiberings of adjoint orbits. **90g:17011**
Gherardelli, Francesco On a class of abelian varieties. (Italian. English summary) **90e:14045**
Kashiwara, Masaki Representation theory and D-modules on flag varieties. **90k:17029**
Lakshmibai, V. (*with* Rajeswari, K. N.) Towards a standard monomial theory for exceptional groups. **90h:14073**
Littelmann, Peter Koreguläre und äquidimensionale Darstellungen. (English summary) [Coregular and equidimensional representations] **90e:20039**
Manin, Yu. I. *see* **Voronov, A. A., 90e:32037**
Polo, Patrick Modules associés aux variétés de Schubert. (English summary) [Modules associated with Schubert varieties] **90f:20056**
Rajeswari, K. N. *see* **Lakshmibai, V., 90h:14073**
Snow, Dennis M. Spanning homogeneous vector bundles. **90e:32036**
Voronov, A. A. (*with* Manin, Yu. I.) Supercellular partitions of flag superspaces. (Russian) **90e:32037**

Wolper, James A combinatorial approach to the singularities of Schubert varieties. **90g:14037**

14M20 Rational varieties

Items with secondary classifications in 14M20

Bongartz, Klaus Schichten von Matrizen sind rationale Varietäten. [Sheets of matrices are rational varieties] **90g:14030**

Brion, Michel Groupe de Picard et nombres caractéristiques des variétés sphériques. [Picard group and characteristic numbers of spherical varieties] **90i:14048**

Gattazzo, R. A criterion for a rational projectively normal variety to be almost-factorial. (Italian summary) **90c:14029**

Konarski, Jerzy Some examples of cohomological projective spaces, via $\mathbf{C}^+$-actions. **90j:14060**

Shepherd-Barron, N. I. Invariant theory for S_5 and the rationality of M_6. **90b:14058**

14M99 None of the above, but in this section

Kleiman, Steven *see* **Thorup, A., 90g:14038**

Thorup, A. (*with* Kleiman, Steven) Complete bilinear forms. **90g:14038**

Items with secondary classifications in 14M99

Adkins, William A. Simultaneous diagonalization of matrices parametrized by a projective algebraic curve. **90e:15011**

Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Variétés unirationnelles non rationnelles: au-delà de l'exemple d'Artin et Mumford. [Nonrational unirational varieties: beyond the example of Artin and Mumford] **90m:14012**

Eisenbud, David (*with* Saltman, David) Rank varieties of matrices. **90h:14065**

Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis, 90m:14012**

Saltman, David *see* **Eisenbud, David, 90h:14065**

14Nxx Classical methods and problems [see also 51–XX]

14N05 Projective techniques

Abhyankar, Shreeram S. What is the difference between a parabola and a hyperbola? **90a:14074**

Degoli, Lando Un théorème fondamental sur les systèmes linéaires de quadriques. (Russian and Polish summaries) [A fundamental theorem on linear systems of quadrics] **90d:14056**

— Un nouveau théorème sur la variété de Veronese. (Russian and Slovak summaries) [A new theorem on Veronese varieties] **90b:14064**

— On the properties of the Jacobian of a linear system of quadrics. (Italian) **90d:14057**

Finat, J. Polar classes for a threefold with ordinary singularities. (Spanish. English summary) **90a:14075**

Geise, Gerhard Projektion des Schnitts zweier Quadriken. [Projection of the intersection of two quadrics] **90b:14065**

Items with secondary classifications in 14N05

Ådlandsvik, Bjørn Varieties with an extremal number of degenerate higher secant varieties. **90g:14025**

Arnol'd, V. I. The branched covering $\mathbf{CP}^2 \to S^4$, hyperbolicity and projective topology. **90a:57037**

Degoli, Lando Sur l'utilisation des déter-cubes dans les systèmes linéaires des quadriques. [On using detercubes in linear systems of quadrics] **90j:51031b**

— Sur les déter-cubes et leurs applications aux systèmes linéaires de quadriques. (English summary) [Detercubes and their applications to linear systems of quadrics] **90j:51031a**

— Individualisation des bases rationnelles des systèmes linéaires de quadriques. [Individualization of the rational bases of linear systems of quadrics] **90g:14005**

Eneva, Gergana V. A Cremona correspondence between three-dimensional planes in a five-dimensional complex projective space. (Russian. English summary) **90g:14007**

Fania, Maria Lucia (*with* Sommese, A. J.) Varieties whose hyperplane section are $\mathbf{P}^k_{\mathbf{C}}$ bundles. **90h:14012**

Giuffrida, Salvatore Hilbert function of a 0-cycle in $\mathbf{P}^2$. **90b:14008**

Green, Mark L. (*with* Lazarsfeld, R.) Some results on the syzygies of finite sets and algebraic curves. **90d:14034**

Jijtchenko, A. B. On embedded tangent and secant varieties of projective algebraic varieties. **90i:14055**

Lazarsfeld, R. *see* **Green, Mark L., 90d:14034**

Logunov, I. S. Projective invariants of plane curves of third order. (Russian) (*see* **90m:00019**)

Miret, J. M. (*with* Xambó-Descamps, S.) Geometry of complete cuspidal plane cubics. **90k:14059**

Piccolella, Lia Fioravanti More on a differential characterization of Veronese manifolds. **90c:53032**

Shuker, N. H. Conics related by triangles. (Arabic summary) **90d:51043**

Sommese, A. J. *see* **Fania, Maria Lucia, 90h:14012**

Strano, Rosario On the hyperplane sections of curves. (Italian. English summary) **90i:14034**

Xambó-Descamps, S. *see* **Miret, J. M., 90k:14059**

14N10 Enumerative problems

Aluffi, Paolo The characteristic numbers of smooth plane cubics. **90b:14066**

— The enumerative geometry of plane cubics. I. Smooth cubics. **90k:14058**

Colley, Susan Jane Multiple-point formulas and line complexes. **90e:14057**

— Coincidence formulas for line complexes. **90e:14058**

Drechsler, Konrad (*with* Sterz, Ulrich) Completion of the variety of conics with respect to contact conditions. I. **90j:14073**

Ferrarese, Giorgio On the variety that represents the second-order curvilinear elements of the projective plane. (Italian. English summary) **90j:14074**

Johnsen, Trygve Multiplicities of solutions to some enumerative contact problems. **90c:14034**

Kleiman, Steven Intersection theory and enumerative geometry: a decade in review. **90f:14034**

Laksov, D. (*with* Lascoux, Alain; Thorup, A.) On Giambelli's theorem on complete correlations. **90i:14058**

Lascoux, Alain *see* **Laksov, D.; et al., 90i:14058**

Miret, J. M. (*with* Xambó-Descamps, S.) Geometry of complete cuspidal plane cubics. **90k:14059**

Ran, Z. Enumerative geometry of singular plane curves. **90g:14039**

Schröder, Olaf Die Chowvarietät der ungeordneten Punktetripel. [The Chow variety of unordered point triples] **90i:14059**

Sodhi, Amar A note on the intersection of a curve with a complete intersection in $\mathbf{P}^2$. **90j:14075**

— A note on the intersection of a hypersurface with a finite set of points in $\mathbf{P}^n$. **90j:14076**

Sterz, Ulrich *see* **Drechsler, Konrad, 90j:14073**

Thorup, A. *see* **Laksov, D.; et al., 90i:14058** *and* **Kleiman, Steven, 90f:14034**

Xambó-Descamps, S. *see* **Miret, J. M., 90k:14059**

Xu, Ming Wei The hyperosculating points of surfaces in $\mathbf{P}^3$. **90i:14060**

Items with secondary classifications in 14N10

Aure, Alf Bjørn The smooth surfaces in $\mathbf{P}^4$ without apparent triple points. **90e:14041**

Benson, David John Projective modules for the group of twenty-seven lines on a cubic surface. **90d:20022**

Elencwajg, G. (*with* Le Barz, Patrick) L'anneau de Chow des triangles du plan. [The Chow ring of triangles in the plane] **90i:14003**

Le Barz, Patrick La variété des triplets complets. [The variety of complete triples] **90j:14008**

— *see also* **Elencwajg, G., 90i:14003**

Pragacz, Piotr Enumerative geometry of degeneracy loci. **90e:14004**

Xu, Ming Wei Coordinate gap and biduality. **90f:14026**

— Inflection points on surfaces in $\mathbf{P}^3$. (Chinese) **90m:14032**

14N99 None of the above, but in this section

Finashin, S. M. Configurations of seven points in $\mathbf{RP}^3$. **90c:14035**

Ko, Hai Ping Geometry theorem proving by decomposition of quasi-algebraic sets: an application of the Ritt-Wu principle. **90j:14077**

Mazurovskiĭ, V. F. Configurations of six skew lines. (Russian. English summary) **90b:14067**

Weinberg, David A. The affine classification of cubic curves. **90b:14068**

— The topological classification of cubic curves. **90b:14069**

Items with secondary classifications in 14N99

Cucker, Felipe (*with* Pardo, L. M.; Raimondo, M.; Recio Muñiz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. **90j:14020**

Herzer, A Generalized Segre varieties. (Italian) **90b:51005**

Pardo, L. M. *see* **Cucker, Felipe; et al., 90j:14020**

Raimondo, M. *see* **Cucker, Felipe; et al., 90j:14020**

Recio Muñiz, Tomás J. *see* **Cucker, Felipe; et al., 90j:14020**

Roy, M.-F. *see* **Cucker, Felipe; et al., 90j:14020**

15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

15–01 Elementary exposition; textbooks

Aroca Hernández-Ros, José M. (*with* Fernández Bernejo, María Josefa) ★ Álgebra lineal y geometría. (Spanish) [Linear algebra and geometry] **90e:15001**

(Ault, J. C.) *see* **Nef, W., 90g:15001**

Barker, G. P. *see* **Schneider, Hans, 90g:15002**

Bondarenko, M. F. (*with* Shabanov-Kushnarenko, S. Yu.) Linear predicates. (Russian) **90m:15001**

Deng, Chai Ling (*with* Lim, Chong Keang) Augmentation and decomposition of k-requirement matrices. **90m:15002**

Fernández Bernejo, María Josefa *see* **Aroca Hernández-Ros, José M., 90e:15001**

Friedberg, Stephen H. (*with* Insel, Arnold J.; Spence, Lawrence E.) ★ Linear algebra. **90i:15001**

Gel'fand, I. M. ★ Lectures on linear algebra. **90j:15001**

Griffel, D. H. ★ Linear algebra and its applications. Vol. 1. **90f:15001a**

— ★ Linear algebra and its applications. Vol. 2. **90f:15001b**

Herstein, I. N. (*with* Winter, David J.) ★ Matrix theory and linear algebra. **90h:15001**

Horn, Roger A. (*with* Johnson, Charles Royal) ★ Матричный анализ. (Russian) [Matrix analysis] **90e:15002**

(Ikramov, Kh. D.) *see* **Horn, Roger A., 90e:15002**

Insel, Arnold J. *see* **Friedberg, Stephen H.; et al., 90i:15001**

Johnson, Charles Royal *see* **Horn, Roger A., 90e:15002**

(Knyazev, Andreĭ Vladimirovich) *see* **Horn, Roger A., 90e:15002**

Lang, Serge ★ Linear algebra. **90b:15001**

Lim, Chong Keang *see* **Deng, Chai Ling, 90m:15002**

Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] **90f:15002**

Marcus, Marvin (*with* Minc, Henryk) ★ Introduction to linear algebra. **90h:15002**
Minc, Henryk *see* **Marcus, Marvin, 90h:15002**
Nef, W. ★ Linear algebra. **90g:15001**
Schneider, Hans (*with* Barker, G. P.) ★ Matrices and linear algebra. **90g:15002**
Shabanov-Kushnarenko, S. Yu. *see* **Bondarenko, M. F., 90m:15001**
(Shapiro, Z. Ya.) *see* **Gel′fand, I. M., 90j:15001**
(Shenitzer, A.) *see* **Gel′fand, I. M., 90j:15001**
Spence, Lawrence E. *see* **Friedberg, Stephen H.; et al., 90i:15001**
(Tyrtyshnikov, E. E.) *see* **Horn, Roger A., 90e:15002**
Winter, David J. *see* **Herstein, I. N., 90h:15001**

Items with secondary classifications in 15–01

Dadayan, A. A. (*with* Dudarenko, V. A.) ★ Алгебра и геометрия. (Russian) [Algebra and geometry] **90m:00005**
Dudarenko, V. A. *see* **Dadayan, A. A., 90m:00005**
Jacobson, Nathan ★ Basic algebra. II. **90m:00007**
Kalman, Dan The axis of a rotation: analysis, algebra, geometry. **90j:51015**
(Sislian, Jean) *see* **Smirnov, Vladimir Ivanovich, 90k:00002a**
Smirnov, Vladimir Ivanovich ★ Cours de mathématiques supérieures. Tome III. Première partie. (French) [Course of higher mathematics. Vol. III. Part 1] **90k:00002a**

15–02 Advanced exposition (research surveys, monographs, etc.)

Belitskiĭ, G. R. (*with* Lyubich, Yu. I.) ★ Matrix norms and their applications. **90g:15003**
Gantmakher, F. R. ★ Теория матриц. (Russian) [Theory of matrices] **90a:15001**
(Iacob, Andrei) *see* **Belitskiĭ, G. R., 90g:15003**
(Lidskiĭ, V. B.) *see* **Gantmakher, F. R., 90a:15001**
Lyubich, Yu. I. *see* **Belitskiĭ, G. R., 90g:15003**

Items with secondary classifications in 15–02

Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. **90d:47021**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Volkmer, Hans, 90d:47021**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

(Burali-Forti, Cesare) *see* **Freguglia, Paolo, 90c:01034**
Freguglia, Paolo Cesare Burali-Forti and studies on geometric calculus. (Italian) **90c:01034**
Halmos, P. R. Fifty years of linear algebra: a personal reminiscence. **90b:01049**
Taussky, Olga How I became a torchbearer for matrix theory. **90d:01077**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Strauss, Nicholas Algorithm and implementation for computation of Jordan form over $A[x_1, \cdots, x_m]$. **90e:15003**

Items with secondary classifications in 15–04

Davenport, J. H. Algebraic computations and structures. **90e:12002**
Garzon, Max *see* **Zalcstein, Y., 90e:68052**
Robert, Yves (*with* Trystram, Denis) Optimal scheduling algorithms for parallel Gaussian elimination. (French summary) **90j:65167**
Trystram, Denis *see* **Robert, Yves, 90j:65167**
Ufimtsev, P. V. A complex of programs for solving partial problems. (Russian) **90h:65042**
Zalcstein, Y. (*with* Garzon, Max) An NC^2 algorithm for testing similarity of matrices. **90e:68052**

15–06 Proceedings, conferences, etc.

(Berman, Abraham) *see* **Proceedings: Matrix Theory Conference, 90c:15001**
(Hernández, Vicente) *see* **Linear algebra and applications,** (Not in MR)
(Hershkowitz, Daniel) *see* **Proceedings: Matrix Theory Conference, 90c:15001**
(Lerer, L.) *see* **Proceedings: Matrix Theory Conference, 90c:15001**
(Neumann, Michael) *see* **Linear algebra and applications,** (Not in MR)
(de Oliveira, Graciano) *see* **Linear algebra and applications,** (Not in MR)

Items listed otherwise than by author

Conference:
  Linear Algebra and Applications ★ Linear algebra and applications. (Not in MR)
  Matrix Theory ★ Proceeding of the Fourth Haifa Matrix Theory Conference. **90c:15001**
Haifa ★ Proceeding of the Fourth Haifa Matrix Theory Conference. **90c:15001**
Linear algebra and applications ★ Linear algebra and applications. (Not in MR)
Proceedings:
  Matrix Theory Conference ★ Proceeding of the Fourth Haifa Matrix Theory Conference. **90c:15001**
Valencia ★ Linear algebra and applications. (Not in MR)

Items with secondary classifications in 15–06

(Barnett, Stephen) *see* **Applications of matrix theory, 90j:00015**
(Dym, H.) *see* **Gohberg anniversary collection, 90k:00026**
(Gohberg, I.) *see* **Gohberg anniversary collection, 90k:00026**
(Goldberg, Seymour) *see* **Gohberg anniversary collection, 90k:00026**
(Gover, M. J. C.) *see* **Applications of matrix theory, 90j:00015**
(Kaashoek, M. A.) *see* **Gohberg anniversary collection, 90k:00026**
(Lancaster, Peter) *see* **Gohberg anniversary collection, 90k:00026**

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Applications of matrix theory ★ Applications of matrix theory. **90j:00015**
Bradford ★ Applications of matrix theory. **90j:00015**
Calgary, AB ★ The Gohberg anniversary collection. Vol. I. **90k:00026**
Conference:
  Applications of Matrix Theory ★ Applications of matrix theory. **90j:00015**
  Operator Theory: Advances and Applications ★ The Gohberg anniversary collection. Vol. I. **90k:00026**
Gohberg anniversary collection ★ The Gohberg anniversary collection. Vol. I. **90k:00026**

15A03 Vector spaces, linear dependence, rank

Gupta, Ashok Kumar *see* **Kumar, Gajendra, 90d:15001**
Kumar, Gajendra (*with* Gupta, Ashok Kumar) Unit linear sets. I. **90d:15001**
Meshulam, Roy On two extremal matrix problems. **90g:15004**
— On k-spaces of real matrices. **90j:15002**
Nzumba, Likeke Akulia Un algorithme pour extraire d'une famille de vecteurs toutes les bases du sous-espace engendré par cette famille. (English summary) [An algorithm for deriving from a family of vectors all of the bases of a subspace generated by that family] **90d:15002**
Redheffer, Ray (*with* Volkmann, Peter) Positive linear functionals and the order cone. **90h:15003**
Rung, Josef Zur Einführung der Vektorraumdimension. [Introducing the vector space dimension] **90g:15005**
de Sá, Eduardo Marques The rank of the difference of similar matrices. **90j:15003**
Tu, Bo Xun Identities and inequalities on the rank of submatrices of a matrix over a division ring. (Chinese. English summary) **90i:15002**
Volkmann, Peter *see* **Redheffer, Ray, 90h:15003**
Wolsson, K. Linear dependence of a function set of m variables with vanishing generalized Wronskians. **90d:15003**
Zhu, Zhong Nan The relationship between orthogonal subspaces and decomposable tensors in Grassmann spaces. (Chinese. English summary) **90f:15003**

Items with secondary classifications in 15A03

ten Berge, Jos M. F. (*with* Kiers, Henk A. L.; de Leeuw, Jan) Explicit CANDECOMP/PARAFAC solutions for a contrived $2 \times 2 \times 2$ array of rank three. **90h:62246**
Biswas, R. Fuzzy fields and fuzzy linear spaces redefined. **90k:03050**
Bshouty, Nader H. A lower bound for matrix multiplication. **90g:15042**
Hefez, Abramo (*with* Thorup, A.) Symmetric matrices with alternating blocks. **90g:14036**
Kass, Seymour Spaces of closest fit. **90f:51018**
Kiers, Henk A. L. *see* **ten Berge, Jos M. F.; et al., 90h:62246**
de Leeuw, Jan *see* **ten Berge, Jos M. F.; et al., 90h:62246**
Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] **90f:15002**
Martins, Luiz C. An analytical approach to Cayley-Hamilton theorem. (Italian summary) **90e:15016**
Thorup, A. *see* **Hefez, Abramo, 90g:14036**
Verardi, Libero Vector spaces of invertible matrices and associated groups. (Italian. English summary) **90m:20042**

15A04 Linear transformations, semilinear transformations

Beasley, LeRoy B. (*with* Pullman, Norman J.) Linear operators that strongly preserve primitivity. **90h:15004**
Cheng, Ru Jie *see* **Pan, Wan Fu; et al., 90j:15004**
Guo, Shu Lan *see* **Pan, Wan Fu; et al., 90j:15004**
Guo, Zhong Heng (*with* Podio-Guidugli, Paolo) A concise proof of the representation theorem for linear isotropic tensor-valued mappings of a skew argument. **90h:15005**
Heimbeck, G. On the representability of vector space endomorphisms by projections. **90d:15004**
Laffey, T. J. (*with* Loewy, Raphael) Linear transformations which do not increase rank. **90m:15003**
Loewy, Raphael Linear transformations which preserve or decrease rank. **90h:15006**
— *see also* **Laffey, T. J., 90m:15003**
Pan, Wan Fu (*with* Cheng, Ru Jie; Guo, Shu Lan) A representation of linear transformations by ordered sets of vectors. (Chinese. English summary) **90j:15004**
Podio-Guidugli, Paolo *see* **Guo, Zhong Heng, 90h:15005**
Pullman, Norman J. *see* **Beasley, LeRoy B., 90h:15004**
Reichstein, Boris On classification of invariant subspaces of a linear operator. **90m:15004**
Wilde, Alan C. Properties of affine projections. (Italian summary) **90h:15007**

Items with secondary classifications in 15A04

Chen, Hsin-Chu (*with* Sameh, A.) A matrix decomposition method for orthotropic elasticity problems. **90a:65097**
Li, Chi-Kwong (*with* Tsing, Nam-Kiu) Duality between some linear preservers problems: the invariance of the C-numerical range, the C-numerical radius and certain matrix sets. **90m:15041**
Loewy, Raphael Linear maps that preserve an inertia class. **90k:15009**
Nikodem, Kazimierz Extreme points and linear transformations. **90m:46015**
Sameh, A. *see* **Chen, Hsin-Chu, 90a:65097**
Trajković, Ljiljana (*with* Willson, Alan N., Jr.) Replacing a transistor with a compound transistor. **90d:94012**
Tsing, Nam-Kiu *see* **Li, Chi-Kwong, 90m:15041**
Willson, Alan N., Jr. *see* **Trajković, Ljiljana, 90d:94012**

15A06 Linear equations

Asanov, A. A commutative ring and a system of equations over it. (Russian) **90m:15005**
Borne, P. *see* **Rotella, F., 90j:15005**
Chen, Yong Lin A simple criterion for the solvability of a special class of systems of linear equations. (Chinese) **90c:15002**

Duca, Dorel I. Theorem of Motzkin's alternative for nonhomogeneous complex linear equations and inequalities. **90f:15004**
de Malafosse, Bruno *see* **Mascart, Henri, 90h:15008** *and* **90h:15009**
Mascart, Henri (*with* de Malafosse, Bruno) Systèmes linéaires infinis associés à des séries entières. (English summary) [Infinite linear systems associated with power series] **90h:15008**
— (*with* de Malafosse, Bruno) Caractérisation des espaces images d'une classe de systèmes linéaires infinis. (English summary) [Characterization of the image spaces of a class of infinite linear systems] **90h:15009**
Orr, J. W. A geometrical approach to Cramer's rule. **90g:15006**
Rotella, F. (*with* Borne, P.) Explicit solution of Sylvester and Lyapunov equations. **90j:15005**
Valitskiĭ, Yu. N. A method for solving a system of linear equations with a Vandermonde matrix. (Russian) **90g:15007**
Verlan, I. I. Positive solutions of systems of linear algebraic equations with Jacobian matrices of coefficients. (Russian) **90b:15002**
Wang, Guo Rong[1] A Cramer rule for finding the solution of a class of singular equations. **90c:15003**
Yang, Yao Sen Conditions for the existence of unique solutions to a class of constrained systems of equations. (Chinese. English summary) **90i:15003**

Items with secondary classifications in 15A06

Charrier, P. (*with* Roman, J.) Algorithmique et calculs de complexité pour un solveur de type dissections emboîtées. (English summary) [Algorithmic study and complexity bounds for a nested dissection solver] **90m:65083**
Davydov, E. G. (*with* Isichenko, I. V.) ★ Некоторые дискретные задачи теории управления. (Russian) [Some discrete problems in control theory] **90d:93059**
Dibowski, Klaus Numerical calculation of the whole solution set in linear discrete L_1 approximation. (Russian and Polish summaries) **90a:90114**
Duca, Dorel I. On the Farkas type theorem for complex linear equations and inequalities. **90k:90118**
Freund, Roland Wilhelm On polynomial approximations to $f_a(z)(z-a)^{-1}$ with complex a and some applications to certain non-Hermitian matrices. **90j:41008**
Galba, E. F. *see* **Molchanov, I. N., 90j:15011**
Grod, I. N. *see* **Mitropol'skiĭ, Yu. A., 90m:34108**
Hartfiel, D. J. Cone control on nonnegative control equations. **90m:93082**
Hegedűs, Cs. J. General recursions of Hestenes-Stiefel type for conjugate directions. II. The reverse recursion. (Hungarian. English summary) **90a:65110**
Isichenko, I. V. *see* **Davydov, E. G., 90d:93059**
Kaczorek, Tadeusz Decomposition of 2-D linear systems into 1-D systems in the frequency domain. **90b:49047**
Kečkić, Jovan D. On some generalized inverses of matrices and some linear matrix equations. **90m:15007**
Kimura, Morishige Doubling algorithm for continuous-time algebraic Riccati equation. **90g:93040**
Krause, Gerd M. *see* **Mehrmann, Volker, 90f:93017**
Krishna, Bal (*with* Krishna, Hari) Computationally efficient reduced polynomial based algorithms for Hermitian Toeplitz matrices. **90m:65063**
Krishna, Hari *see* **Krishna, Bal, 90m:65063**
Lee, E. Bruce *see* **Louisell, J., 90e:93012**
Lorenz, Falko ★ Lineare Algebra. II. (German) [Linear algebra. II] **90f:15002**
Louisell, J. (*with* Lee, E. Bruce) Further results on controllability and the linear equation $Ax = b$. **90e:93012**
Markov, K. N. *see* **Markov, S. I., 90f:65249**
Markov, S. I. (*with* Markov, K. N.) Parallel numerical algorithms for high-speed multiprocessor computer complexes. Solution of a system of linear equations. (Bulgarian. English and Russian summaries) **90f:65249**
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15A21 Canonical forms, reductions, classification

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15A22 Matrix pencils

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15A23 Factorization of matrices

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15A24 Matrix equations and identities

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15A30 Algebraic systems of matrices [see also 16A42, 20Gxx, 20Hxx]

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15A33 Matrices over special rings (quaternions, finite fields, etc.)

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— The centralized basis theorem for self-conjugate real quaternion matrices and its applications. (Chinese. English summary) **90j:15028**
— UL decomposition of real quaternion matrices. (Chinese. English summary) **90m:15029**
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15A39 Linear inequalities

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15A42 Inequalities involving eigenvalues and eigenvectors

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— The Robertson-Taussky inequality revisited. **90m:15011**
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15A45 Miscellaneous inequalities involving matrices

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15A48 Positive matrices and their generalizations; cones of matrices

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15A51 Stochastic matrices

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15A52 Random matrices

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15A54 Matrices over function rings in one or more variables

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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

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15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]

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15A66 Clifford algebras, spinors

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15A69 Multilinear algebra, tensor products

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(Terao, Hiroaki) *see* **Orlik, Peter, 90h:32028**
Van Oystaeyen, F. *see* **Le Bruyn, Lieven, 90j:12011**
Wallach, Nolan R. *see* **Goodman, Roe, 90e:17030**
Xiong, Zhu Hua (*with* Zheng, Quan Shui) Canonical representations and degree of freedom formulae of orthogonal tensors in n-dimensional Euclidean space. **90g:53021**
Yu, Dong Won Stability functions of the partly-linearized Runge-Kutta method. **90c:65102**
Żekanowski, Zbigniew *see* **Gähler, Siegfried, 90m:15045**
Zheng, Quan Shui *see* **Xiong, Zhu Hua, 90g:53021**

15A75 Exterior algebra, Grassmann algebras

Arreguín, Guillermo Applications of exterior algebra to geometry. (Spanish) **90h:15041**
Regev, Amitai Homomorphisms for tensor products of Grassmann algebras. **90m:15048**
Revoy, Philippe Formes trilinéaires alternées de rang 7. (English summary) [Alternating trilinear forms of rank 7] **90c:15010**
Zhu, Zhong Nan Some equivalent conditions for decomposable tensors in Grassmann spaces. (Chinese) **90b:15026**

Items with secondary classifications in 15A75

Nance, Dana A class of weakened special Lagrangian calibrations. **90g:49032**
Rota, Gian-Carlo (*with* Stein, Joel A.) Standard basis in supersymplectic algebras. **90g:15044**
Stein, Joel A. *see* **Rota, Gian-Carlo, 90g:15044**
Sturmfels, Bernd (*with* White, Neil) Gröbner bases and invariant theory. **90g:13003**
Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. **90h:16006**
White, Neil *see* **Sturmfels, Bernd, 90g:13003**

15A78 Other algebras built from modules

Items with secondary classifications in 15A78

Gurevich, D. I. Hecke symmetries and quantum determinants. **90c:17018**

15A90 Applications to physics

Items with secondary classifications in 15A90

Datta, Lokesh (*with* Morgera, S. D.) On the reducibility of centrosymmetric matrices—applications in engineering problems. **90g:15020**
Morgera, S. D. *see* **Datta, Lokesh, 90g:15020**

15A99 Miscellaneous topics

Abu Osman, M. T. On t-fuzzy subfield and t-fuzzy vector subspaces. **90j:15038**
Baartmans, Alphonse *see* **Kim, Jin Bai, 90b:15027** *and* **90g:15045**
Bekker, Paul A. The positive semidefiniteness of partitioned matrices. **90d:15023**
Blokhuis, A. (*with* Wilbrink, H. A.; Teumer, Gunter) Unit vectors with nonnegative inner products and Kruskal's conjecture. **90e:15040**
Cel, Jarosław Some new theorems on the matrices that arise in the analysis of networks. (Polish summary) **90h:15042**
Fang, Hao Jian (*with* Huang, Zhi Qiang) Regular fuzzy matrices. II. (Chinese. English summary) **90m:15049**
Franklin, Joel (*with* Lorenz, Jens) On the scaling of multidimensional matrices. **90e:15041**
Hu, Bao Qing Generalized fuzzy inverse matrices under the sup-T composition. (Chinese) **90f:15023**
Huang, Zhi Qiang *see* **Fang, Hao Jian, 90m:15049**
Kalogeropoulos, G. *see* **Karcanias, N., 90h:15043**
Karcanias, N. (*with* Kalogeropoulos, G.) Projective equivalence of homogeneous binary polynomials. **90h:15043**
Kim, Jin Bai (*with* Baartmans, Alphonse) A determinant theorem for fuzzy matrices. **90b:15027**
— (*with* Baartmans, Alphonse) On n-dimensional matrix groups. **90g:15045**
Kobayashi, Yuji (*with* Nagamachi, S.) Eigenvalues and characteristic functions of supermatrices. (*see* **90e:20002**)
Lorenz, Jens *see* **Franklin, Joel, 90e:15041**
Nagamachi, S. *see* **Kobayashi, Yuji, (90e:20002)**
Nunemacher, Jeffrey Which real matrices have real logarithms? **90f:15024**
Rothblum, Uriel (*with* Schneider, Hans) Scalings of matrices which have prespecified row sums and column sums via optimization. **90e:15042**
— Generalized scalings satisfying linear equations. **90e:15043**
Rushanan, Joseph J. On the Vandermonde matrix. **90j:15039**
Schneider, Hans *see* **Rothblum, Uriel, 90e:15042**
Teumer, Gunter *see* **Blokhuis, A.; et al., 90e:15040**
Topencharov, Vladimir V. Composition générale de matrices multidimensionelles. [General composition of multidimensional matrices] **90e:15044**
Uteshev, A. Yu. Necessary and sufficient conditions for positive-definiteness of homogeneous forms. (Russian) (*see* **90k:00019**)
Wilbrink, H. A. *see* **Blokhuis, A.; et al., 90e:15040**
Zhang, Ke Min A note on the sequence of powers of a nonnegative matrix. (Chinese. English summary) **90f:15025**
Zhang, Xiao Hong An equivalent definition of linear spaces. (Chinese) (Not in MR)

Items with secondary classifications in 15A99

Bapat, R. B. (*with* Raghavan, T. E. S.) An extension of a theorem of Darroch and Ratcliff in loglinear models and its application to scaling multidimensional matrices. **90e:15032**
Berens, H. (*with* Finzel, M.) A continuous selection of the metric projection in matrix spaces. **90i:41040**
Bisiacco, M. (*with* Fornasini, E.; Marchesini, Giovanni) 2D systems feedback compensation: an approach based on commutative linear transformations. **90g:93019**
Butkovič, Peter (*with* Plávka, Ján) On the dependence of the maximum cycle mean of a matrix on permutations of the rows and columns. **90k:05085**
Calogero, F. A remarkable matrix. **90e:58058**
Datta, B. N. *see* **Fuhrmann, P. A., 90h:15037**
Derevenskiĭ, V. P. Quasilinear matrix differential equations. **90g:34005**
— Quasilinear matrix differential equations. (Russian. English summary) **90d:34027**
Finzel, M. *see* **Berens, H., 90i:41040**
Fornasini, E. *see* **Bisiacco, M.; et al., 90g:93019**
Fuhrmann, P. A. (*with* Datta, B. N.) On Bezoutians, Vandermonde matrices, and the Liénard-Chipart stability criterion. **90h:15037**
Gerards, A. M. H. A short proof of Tutte's characterization of totally unimodular matrices. **90b:05033**
Gracia, Juan-M. (*with* de Hoyos, Inmaculada; Zaballa, Ion) Perturbation of linear control systems. **90g:49030**
Hayton, G. E. (*with* Walker, A. B.; Pugh, A. C.) On a transformation for general polynomial matrices with applications. **90m:93036**
— (*with* Walker, A. B.; Pugh, A. C.) Matrix pencil equivalents of a general polynomial matrix. **90g:15035**
de Hoyos, Inmaculada *see* **Gracia, Juan-M.; et al., 90g:49030**
Huang, Guo Tai On the fourth conjecture on Hadamard matrices. (Chinese) **90d:05052**
Ioulidis, Stavros (*with* Mittas, Jean D.) Sur certaines notions préliminaires de l'hyperalgèbre linéaire. Introduction de l'hypergroupe polysymétrique. (Greek summary) [Some preliminary notions of linear hyperalgebra. Introduction to the polysymmetric hypergroup] **90e:16071**
Jinadasa, K. G. *see* **Tracy, D. S., 90m:62148**
Kass, Seymour Spaces of closest fit. **90f:51018**
Kim, Ki Hang (*with* Roush, Fred) Decidability of shift equivalence. **90g:54033**
Kovalenko, S. P. On induced matrices. (Russian. English summary) **90g:15037**
Lam, T. Y. (*with* Leroy, André) Vandermonde and Wronskian matrices over division rings. **90f:16005**
Leroy, André *see* **Lam, T. Y., 90f:16005**
Llovet, Juan (*with* Sendra, Juan R.) Hankel matrices and polynomials. **90i:12001**
Longstaff, W. E. Nonreflexive realizations of nondistributive subspace lattices. **90g:47008**
Lovász, László (*with* Vesztergombi, K.) Extremal problems for discrepancy. **90f:11066**
de Malafosse, Bruno *see* **Mascart, Henri, 90h:15008** *and* **90h:15009**
Marchesini, Giovanni *see* **Bisiacco, M.; et al., 90g:93019**
Mascart, Henri (*with* de Malafosse, Bruno) Systèmes linéaires infinis associés à des séries entières. (English summary) [Infinite linear systems associated with power series] **90h:15008**

— (*with* de Malafosse, Bruno) Caractérisation des espaces images d'une classe de systèmes linéaires infinis. (English summary) [Characterization of the image spaces of a class of infinite linear systems] **90h:15009**

McCullough, Scott 2-chordal graphs. **90m:05086**

Mittas, Jean D. *see* **Ioulidis, Stavros, 90e:16071**

Murota, Kazuo On the irreducibility of layered mixed matrices. **90g:05131**

Muyassarov, A. *see* **Soleev, A., 90j:12005**

Plávka, Ján *see* **Butkovič, Peter, 90k:05085**

Powers, David L. Semiregular graphs and their algebra. **90g:05132**

Pugh, A. C. *see* **Hayton, G. E.; et al., 90g:15035** *and* **90m:93036**

Raghavan, T. E. S. *see* **Bapat, R. B., 90e:15032**

Roush, Fred *see* **Kim, Ki Hang, 90g:54033**

Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. I. Existence conditions. **90f:90110**

Sendra, Juan R. *see* **Llovet, Juan, 90i:12001**

Shaked, U. The explicit structure of inner matrices and its application in H^∞-optimization. (Not in MR)

Soleev, A. (*with* Muyassarov, A.) Reduction of systems of nonlinear algebraic equations to block-triangular form. (Russian) **90j:12005**

Stern, August ★ Matrix logic. **90b:03037**

Sun, You Xian *see* **Wang, Qing Guo; et al., 90d:93032**

Tracy, D. S. (*with* Jinadasa, K. G.) Partitioned Kronecker products of matrices and applications. (French summary) **90m:62148**

Trajković, Ljiljana (*with* Willson, Alan N., Jr.) Replacing a transistor with a compound transistor. **90d:94012**

Vesztergombi, K. *see* **Lovász, László, 90f:11066**

Walker, A. B. *see* **Hayton, G. E.; et al., 90g:15035** *and* **90m:93036**

Wang, Qing Guo (*with* Sun, You Xian; Zhou, Chun Hui) A new algorithm for constructing internal skew prime polynomial matrices. (Chinese summary) **90d:93032**

Wei, Wan Di (*with* Yang, Ben Fu) The properties of matrices $\alpha I + \beta J$ and some related problems. **90c:15008**

Willson, Alan N., Jr. *see* **Trajković, Ljiljana, 90d:94012**

Yang, Ben Fu *see* **Wei, Wan Di, 90c:15008**

Zaballa, Ion *see* **Gracia, Juan-M.; et al., 90g:49030**

Zhafyarov, A. Zh. Asymptotic properties of optimal trajectories of discrete models in economics and demography. **90b:90041**

Zhao, Shuang Suo Note on the properties of a class of partitioned matrices. (Chinese. English summary) **90b:65089**

Zhou, Chun Hui *see* **Wang, Qing Guo; et al., 90d:93032**

16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

Chen, Hui *see* **Gao, Zhen Lin,** (Not in MR)

Gao, Zhen Lin (*with* Chen, Hui) Her-rings and Herstein's conjecture. (Chinese. English summary)

16–01 Elementary exposition; textbooks

Kantor, I. L. (*with* Solodovnikov, A. S.) ★ Hypercomplex numbers. **90b:16001**

(Shenitzer, A.) *see* **Kantor, I. L., 90b:16001**

Solodovnikov, A. S. *see* **Kantor, I. L., 90b:16001**

Wisbauer, Robert ★ Grundlagen der Modul- und Ringtheorie. (German) [Foundations of module and ring theory] **90e:16001**

Items with secondary classifications in 16–01

Burton, David M. ★ Abstract algebra. **90m:00004**

(Cauchy, Augustin) *see* **Burton, David M., 90m:00004**

(Cayley, Arthur) *see* **Burton, David M., 90m:00004**

(Galois, Évariste) *see* **Burton, David M., 90m:00004**

Jacobson, Nathan ★ Basic algebra. II. **90m:00007**

Nagao, Hirosi ★ Daisugaku. (Japanese) [Algebra] **90h:00001**

(Noether, Emmy) *see* **Burton, David M., 90m:00004**

(Reid, Miles) *see* **Shafarevich, I. R., 90k:00010**

Shafarevich, I. R. ★ Noţiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] **90k:00009**

— ★ Algebra. I. **90k:00010**

(Spircu, T.) *see* **Shafarevich, I. R., 90k:00009**

16–02 Advanced exposition (research surveys, monographs, etc.)

Curtis, Charles W. (*with* Reiner, Irving) ★ Representation theory of finite groups and associative algebras. **90g:16001**

Passman, D. S. ★ Infinite crossed products. **90g:16002**

Reiner, Irving *see* **Curtis, Charles W., 90g:16001**

Van Oystaeyen, F. Some problems on associative rings. (*see* **90m:16001**)

16–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 16–04

Gateva-Ivanova, Tatiana (*with* Latyshev, V. N.) On recognisable properties of associative algebras. **90f:68090**

Latyshev, V. N. *see* **Gateva-Ivanova, Tatiana, 90f:68090**

Mora, T. Groebner bases in noncommutative algebras. **90k:68082**

Takayama, Nobuki Gröbner basis and the problem of contiguous relations. **90d:12005**

16–06 Proceedings, conferences, etc.

(Amitsur, S. A.) *see* **Ring theory 1989, 90h:16001**

(Gardner, B. J.) *see* **Rings, modules and radicals, 90h:16002**

(Kyuno, Shoji) *see* **Radical theory, 90a:16001**

(Le Bruyn, Lieven) *see* **Perspectives in ring theory, 90m:16001**

(Malliavin-Brameret, Marie-Paule) *see* **Seminar: Dubreil-Malliavin Algebra, 90h:16003**

(Rowen, Louis Halle) *see* **Ring theory 1989, 90h:16001**

(Sugano, Kozo) *see* **Proceedings: Symposium on Ring Theory, 90k:16001**

(Van Oystaeyen, F.) *see* **Perspectives in ring theory, 90m:16001**

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Antwerp ★ Perspectives in ring theory. **90m:16001**

Conference:

Radicals—Theory and Application ★ Radical theory. **90a:16001**

Rings, Modules and Radicals ★ Rings, modules and radicals. **90h:16002**

Hobart ★ Rings, modules and radicals. **90h:16002**

Jerusalem ★ Ring theory 1989. **90h:16001**

Lecture Notes in Mathematics ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] **90h:16003**

NATO Advanced Research Workshop:

Perspectives in Ring Theory ★ Perspectives in ring theory. **90m:16001**

Paris ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] **90h:16003**

Perspectives in ring theory ★ Perspectives in ring theory. **90m:16001**

Proceedings:

Symposium on Ring Theory ★ Proceedings of the 22nd Symposium on Ring Theory. **90k:16001**

Radical theory ★ Radical theory. **90a:16001**

Ramat Gan ★ Ring theory 1989. **90h:16001**

Ring theory 1989 ★ Ring theory 1989. **90h:16001**

Rings, modules and radicals ★ Rings, modules and radicals. **90h:16002**

Sapporo ★ Proceedings of the 22nd Symposium on Ring Theory. **90k:16001**

Seminar:

Dubreil-Malliavin Algebra ★ Séminaire d'Algèbre Paul Dubreil et Marie-Paul Malliavin, 39ème Année. [Paul Dubreil and Marie-Paule Malliavin Algebra Seminar, 39th Year] **90h:16003**

Sendai ★ Radical theory. **90a:16001**

Symposium:

Ring Theory ★ Ring theory 1989. **90h:16001**

— ★ Proceedings of the 22nd Symposium on Ring Theory. **90k:16001**

Workshop:

Division Algebra ★ Ring theory 1989. **90h:16001**

Items with secondary classifications in 16–06

(Berman, S. D.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Isaacs, M.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Lichtman, Alexander I.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Passman, D. S.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Sehgal, Sudarshan K.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Sloane, N. J. A.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Zassenhaus, H.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

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Contemporary Mathematics ★ Representation theory, group rings, and coding theory. **90a:00012**

Representation theory, group rings, and coding theory ★ Representation theory, group rings, and coding theory. **90a:00012**

16A02 Integral domains, unique factorization domains (noncommutative)

Jordan, D. A. Unique factorisation of normal elements in noncommutative rings. **90e:16002**

Items with secondary classifications in 16A02

Chatters, A. W. Representation of tiled matrix rings as full matrix rings. **90f:16020**

16A03 Graded algebras, rings and modules

Albu, Toma (*with* Năstăsescu, Constantin) Infinite group-graded rings, rings of endomorphisms, and localization. **90i:16001**

Björk, Jan-Erik The Auslander condition on Noetherian rings. **90m:16002**

Coquereaux, R. (*with* Kastler, Daniel) Remarks on the differential envelopes of associative algebras. **90g:16003**

Divinsky, N. Δ-grings. **90f:16001**

Ekström, Eva Kristina The Auslander condition on graded and filtered Noetherian rings. **90m:16003**

El-Mahdy, S. S. Note on graded endomorphism rings of graded regular modules. (Arabic summary) **90b:16002**

Howe, Roger E. Asymptotics of dimensions of invariants for finite groups. **90d:16001**

Jespers, Eric Graded rings and Jacobson rings. **90g:16004**

— Simple abelian-group graded rings. (Italian summary) **90e:16003**

— (*with* Wauters, P.) Graded rings and Krull orders. **90a:16002**

Kastler, Daniel *see* **Coquereaux, R., 90g:16003**

Le Bruyn, Lieven (*with* Van den Bergh, Michel; Van Oystaeyen, F.) ★ Graded orders. **90h:16004**

Li, Hui Shi (*with* Van Oystaeyen, F.) Zariskian filtrations. **90m:16004**

Liu, Shao Xue The structure of Artinian graded rings. (Chinese. English summary) **90k:16002**

— Two results on smash products. (Chinese) (Not in MR)

Marubayashi, Hidetoshi A note on divisorially graded rings by polycyclic-by-finite groups. **90f:16002**

McConnell, John Coulter (*with* Stafford, J. T.) Gel′fand-Kirillov dimension and associated graded modules. **90i:16002**

Năstăsescu, Constantin Some constructions over graded rings: applications. **90e:16004**

— (*with* Van den Bergh, Michel; Van Oystaeyen, F.) Separable functors applied to graded rings. **90j:16001**

— *see also* **Albu, Toma, 90i:16001**

Parkash Sharma, Ram *see* **Parvathi, M., 90f:16003**

Parvathi, M. (*with* Parkash Sharma, Ram) Prime kernel functors of group graded rings and smash products. **90f:16003**

Saorín Castaño, M. λ-dimension of filtered rings. **90h:16005**

Stafford, J. T. *see* **McConnell, John Coulter, 90i:16002**

Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. **90h:16006**

Van den Bergh, Michel *see* **Le Bruyn, Lieven; et al., 90h:16004** *and* **Năstăsescu, Constantin; et al., 90j:16001**

Van Oystaeyen, F. *see* **Le Bruyn, Lieven; et al., 90h:16004**; **Năstăsescu, Constantin; et al., 90j:16001** *and* **Li, Hui Shi, 90m:16004**

Wauters, P. *see* **Jespers, Eric, 90a:16002**

Zhou, Bo Rong A note on Morita context functors. **90j:16002**

Ziplies, Dieter Abelianizing the divided powers algebra of an algebra. **90j:16003**

Items with secondary classifications in 16A03

Auslander, Maurice (*with* Reiten, Idun) Cohen-Macaulay modules for graded Cohen-Macaulay rings and their completions. **90g:13014**

Bass, Hyman Differential structure of étale extensions of polynomial algebras. **90m:12009**

Beattie, Margaret Inner gradings and Galois extensions with normal basis. **90c:16002**

Caenepeel, S. (*with* Van Oystaeyen, F.) ★ Brauer groups and the cohomology of graded rings. **90c:13002**

Cameron, Peter J. Some sequences of integers. **90i:05011**

Dade, Everett C. Clifford theory and induction from subgroups. **90f:20020**

Decruyenaere, Fabien (*with* Jespers, Eric) Dedekind domains and graded rings. **90m:13019**

Farkas, Daniel R. (*with* Linnell, P. A.) Zero divisors in group rings: something old, something new. **90k:16011**

Gateva-Ivanova, Tatiana Global dimension of associative algebras. **90k:16032**

Gräbe, Hans-Gert Homologien von Streckungsringen. [Homology of rings with straightening law] **90e:13016**

Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. **90j:20063**

Hibi, Takayuki (*with* Narushima, Hiroshi; Tsuchiya, Morimasa; Watanabe, Keiichi) A graph-theoretical characterization of the order complexes on the 2-sphere. **90b:06004**

Jespers, Eric *see* **Decruyenaere, Fabien, 90m:13019**

Linnell, P. A. *see* **Farkas, Daniel R., 90k:16011**

Narushima, Hiroshi (*with* Tsuchiya, Morimasa; Watanabe, Keiichi) The order complexes on the 2-sphere. **90b:06003**

— *see also* **Hibi, Takayuki; et al., 90b:06004**

Passman, D. S. ★ Infinite crossed products. **90g:16002**

Reiten, Idun *see* **Auslander, Maurice, 90g:13014**

Sánchez Valenzuela, Oscar Adolfo Matrix computations in linear superalgebra. **90g:17009**

Sands, A. D. On invariant radicals. **90j:16016**

Schmitt, Thomas^{1} Regular sequences in Z_2-graded commutative algebra. **90h:17005**

Stewart, Patrick N. Essential nilpotence. **90j:16020**

Tsuchiya, Morimasa *see* **Narushima, Hiroshi; et al., 90b:06003** *and* **Hibi, Takayuki; et al., 90b:06004**

Van den Bergh, Michel (*with* Van Oystaeyen, F.) Lifting maximal orders. **90a:16006**

Van Oystaeyen, F. *see* **Van den Bergh, Michel, 90a:16006** *and* **Caenepeel, S., 90c:13002**

Watanabe, Keiichi *see* **Narushima, Hiroshi; et al., 90b:06003** *and* **Hibi, Takayuki; et al., 90b:06004**

16A04 Noncommutative principal ideal rings, rings with a division algorithm

Förster, Arved Zur Theorie einseitig euklidischer Ringe. (English and Russian summaries) [On the theory of one-sidedly Euclidean rings] **90f:16004**

Guralnick, R. (*with* Levy, Lawrence S.; Odenthal, Charles J.) Elementary divisor theorem for noncommutative PIDs. **90c:16005**

Lashkhi, A. A. Harmonic mappings and collineations of modules. (Russian. English and Georgian summaries) **90m:16005**

Levy, Lawrence S. *see* **Guralnick, R.; et al., 90c:16005**

Odenthal, Charles J. *see* **Guralnick, R.; et al., 90c:16005**

Items with secondary classifications in 16A04

Chatters, A. W. Representation of tiled matrix rings as full matrix rings. **90f:16020**

Roux, Bernard Résultats de scindage pour certains anneaux de valuation discrète ou finie non commutatifs. [Splitting results for certain noncommutative discrete or finite valuation rings] **90g:16005**

16A05 Skew polynomial rings, power series rings

Blair, William D. (*with* Small, Lance W.) Embedding differential and skew polynomial rings into Artinian rings. **90k:16003**

Brown, K. A. (*with* Goodearl, K. R.; Lenagan, T. H.) Prime ideals in differential operator rings. Catenarity. **90e:16005**

Dauns, John Centers of semigroup rings and conjugacy classes. **90a:16003**

Dumas, François Centre des anneaux de Cohen, en caractéristique nulle. (English summary) [Center of Cohen rings of characteristic zero] **90b:16003**

Glockner, Peter (*with* von Waldenfels, Wilhelm) The relations of the noncommutative coefficient algebra of the unitary group. **90m:16006**

Goodearl, K. R. *see* **Brown, K. A.; et al., 90e:16005**

Kerer, E. Sh. On decomposition of a binomial in a skew polynomial ring. **90e:16006**

Lam, T. Y. (*with* Leroy, André) Vandermonde and Wronskian matrices over division rings. **90f:16005**

— (*with* Leung, Ka Hin; Leroy, André; Matczuk, J.) Invariant and semi-invariant polynomials in skew polynomial rings. **90k:16004**

Lascoux, Alain (*with* Schützenberger, M.-P.) Fonctorialité des polynômes de Schubert. (English summary) [Functoriality of Schubert polynomials] **90i:16003**

Lenagan, T. H. *see* **Brown, K. A.; et al., 90e:16005**

Leroy, André *see* **Lam, T. Y., 90f:16005** *and* **90k:16004**

Leung, Ka Hin *see* **Lam, T. Y.; et al., 90k:16004**

Makar-Limanov, L. Rings of differential operators on algebraic curves. **90j:16004**

Malm, D. R. Global and Krull dimension of Schmidt differential operator rings. **90h:16007**

Matczuk, J. *see* **Lam, T. Y.; et al., 90k:16004**

Schützenberger, M.-P. *see* **Lascoux, Alain, 90i:16003**

Small, Lance W. *see* **Blair, William D., 90k:16003**

von Waldenfels, Wilhelm *see* **Glockner, Peter, 90m:16006**

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16A06 Free algebras, free ideal rings (firs) and their generalizations [see also tensor algebra in 15A72]

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16A10 Noncommutative local rings

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16A12 Prime and semiprime rings

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Li, Ming Sun (*with* Zelmanowitz, J. M.) Artinian rings with restricted primeness conditions. **90g:16006**

Vukman, J. Commuting and centralizing mappings in prime rings. **90h:16010**

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16A14 Noncommutative analogues of Dedekind and Prüfer domains

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16A16 Separable algebras, Azumaya algebras and their generalizations [see also 12Gxx, 13A20]

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16A18 Orders, arithmetic in algebras [see also 11R52, 11R54, 11S45]

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— (*with* Van Geel, Jan) The class number of hereditary orders in non-Eichler algebras over global function fields. **90d:11126**
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16A19 Simple non-Artinian rings

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16A20 Primitive and semiprimitive rings

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Shao, Song Chun On the direct limit of simple Artinian rings. (Chinese summary) **90h:16017**

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Letzter, Edward Primitive ideals in finite extensions of Noetherian rings. **90f:16013**

16A21 Radical theory

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16A26 Group rings of finite groups [see also 20C05; for semigroup rings, see 20M25]

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16A27 Group rings of infinite groups [see also 20C07; for semigroup rings, see 20M25]

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16A30 von Neumann regular rings and their generalizations [see also 06Cxx, 06Exx]

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16A32 Idempotents in rings [see also 06Exx]

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16A33 Noetherian rings

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16A39 Skew fields [see also 12E15], division rings

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Assem, Ibrahim (*with* Nehring, Jerzy; Skowroński, Andrzej) Domestic trivial extensions of simply connected algebras. **90j:16043**
Bakke, Øyvind Some characterizations of tilted algebras. **90j:16044**
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Bongartz, Klaus A generalization of a theorem of M. Auslander. **90b:16031**
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Guo, Yuan Chun The structure of certain rings. (Chinese. English summary) **90d:16027**
Hirano, Yasuyuki (*with* Tominaga, Hisao; Yaqub, Adil) On rings in which every element is uniquely expressible as a sum of a nilpotent element and a certain potent element. **90d:16028**
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Gómez Pardo, José L. Counterinjective modules and duality. **90k:16026**
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Harada, Manabu (*with* Mabuchi, Tsuguo) On almost M-projectives. **90m:16025**
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16A54 Grothendieck groups of rings, K-theory of noncommutative rings [see also 18F25, 18F30, 19–XX]

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Teply, Mark L. Global dimensions of right coherent rings with left Krull dimension. **90m:16029**
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16A58 Deformation theory of rings and algebras [see also 13D10, 14D15, 32Gxx]

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16A60 Homological dimension

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16A62 Homological methods

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Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) **90g:12009**

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16A80 Topological rings and modules [see also 13Jxx]

Alekseĭ, S. F. The existence of free topological modules in a class of modules that are bounded. (Russian) **90b:16045**

Arnautov, V. I. (*with* Vodinchar, M. I.; Glavatskiĭ, S. T.; Mikhalëv, A. V.) ★ Конструкции топологических колец и модулей. (Russian) [Constructions of topological rings and modules] **90b:16046**

Bokalo, B. M. (*with* Guran, I. I.) Boundedness in topological rings. (Ukrainian. Russian summary) (Not in MR)

Cohen, Jo-Ann (*with* Koh, Kwangil) On the group actions of the units on nonunits in a compact ring. **90a:16030**

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Gregorio, Enrico Dualities over compact rings. **90i:16034**

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Nguyễn Việt Dũng[2] On linearly compact rings. **90e:16070**

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Beĭdar, K. I. (*with* Glavatskiĭ, S. T.; Mikhalëv, A. V.) Semisimple classes and lower radicals of topological nonassociative algebras. (Russian. English summary) **90h:16018**
Glavatskiĭ, S. T. *see* **Beĭdar, K. I.; et al., 90h:16018**
Gómez Pardo, José L. Counterinjective modules and duality. **90k:16026**
Mikhalëv, A. V. *see* **Beĭdar, K. I.; et al., 90h:16018**
Nazarov, A. O. Localization in the category of topological modules. **90b:16005**
Shell, Niel Point at infinity. **90a:12019**
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16A86 Ordered rings [see also 06F25]

Items with secondary classifications in 16A86
Chacron, M. *C*-valuations and normal *C*-orderings. **90i:16016**
Leung, Ka Hin Positive semidefinite forms over ordered skew fields. **90f:11027**
Redfield, R. H. Dual spaces of totally ordered rings. **90a:06020**

16A89 Equivalence of module categories

Nobusawa, Nobuo Correspondences of modules over a Morita ring. **90c:16019**

Items with secondary classifications in 16A89
Dräxler, P. $\mathfrak{U}$-Fasersummen in artinschen Ringen. [$\mathfrak{U}$-fiber sums in Artinian rings] **90e:16024**
Xue, Wei Min^2 Morita duality and Artinian left duo rings. **90b:16033**

16A90 Categorical methods and categorical ring theory

Crstici, Borislav (*with* Dăianu, Dan) Projective limits in a module *a*-category. (Romanian summary) **90h:16063**
Dăianu, Dan *see* **Crstici, Borislav, 90h:16063**
Hannick, Francis T. (*with* Hewitt, Gloria C.) Characterizations of generalized Noetherian rings. **90g:16039**
Hewitt, Gloria C. *see* **Hannick, Francis T., 90g:16039**
Zhu, Sheng Lin On the equivalences of quotient category Mod-$(R,\mathscr{F})$ with module category Mod-S. **90b:16048**

Items with secondary classifications in 16A90
Chen, Wei Xin The relationship between categories of rings and generalized Γ-rings. (Chinese. English summary) (Not in MR)
Coquereaux, R. (*with* Kastler, Daniel) Remarks on the differential envelopes of associative algebras. **90g:16003**
Gómez Pardo, José L. Counterinjective modules and duality. **90k:16026**
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Hendrickx, B. (*with* Verschoren, A.) A note on compatibility and stability. **90i:16024**
Kastler, Daniel *see* **Coquereaux, R., 90g:16003**
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Verschoren, A. *see* **Hendrickx, B., 90i:16024**
Wisbauer, Robert ★ Grundlagen der Modul- und Ringtheorie. (German) [Foundations of module and ring theory] **90e:16001**
Zhu, Sheng Lin A note on Fuller's theorem. **90j:16055**
Zimmermann, Wolfgang *see* **Zimmermann-Huisgen, B., 90k:16036**
Zimmermann-Huisgen, B. (*with* Zimmermann, Wolfgang) On the sparsity of representations of rings of pure global dimension zero. **90k:16036**

16A99 Miscellaneous topics

Birkenmeier, Gary F. (*with* Heatherly, Henry) Embeddings of strongly right bounded rings and algebras. **90c:16020**
Golan, Jonathan S. Making modules fuzzy. **90k:16043**
Heatherly, Henry *see* **Birkenmeier, Gary F., 90c:16020**
Ioulidis, Stavros (*with* Mittas, Jean D.) Sur certaines notions préliminaires de l'hyperalgèbre linéaire. Introduction de l'hypergroupe polysymétrique. (Greek summary) [Some preliminary notions of linear hyperalgebra. Introduction to the polysymmetric hypergroup] **90e:16071**
Mittas, Jean D. *see* **Ioulidis, Stavros, 90e:16071**
Mukherjee, T. K. (*with* Sen, Mridul Kanti) Prime fuzzy ideals in rings. **90h:16064**
Sen, Mridul Kanti *see* **Mukherjee, T. K., 90h:16064**
Wagneur, Edouard Finitely generated moduloids. The existence and unicity problem for bases. **90i:16035**
Zhu, Xiao Sheng Some properties of Grothendieck groups of quotient rings of a class of IBN rings. (Chinese. English summary) (Not in MR)

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Abrams, Gene D. The recovery question for local incidence rings. **90d:06002**
Chekova, Polya *see* **Popov, Angel, 90b:08010**
Dennis, R. K. (*with* Vaserstein, L. N.) Commutators in linear groups. **90h:20045**
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Drenski, Veselin S. (*with* Lakatos, Piroska) Monomial ideals, group algebras and error correcting codes. **90h:94044**
ter Elst, A. F. M. *see* **de Graaf, Jan, 90d:46058**
Gardner, B. J. Płonka-type sums over free products. **90i:08009**
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Nanda, Sudarsan Fuzzy modules over fuzzy rings. **90h:16048**
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17–XX Nonassociative rings and algebras

17–02 Advanced exposition (research surveys, monographs, etc.)

Zel'manov, E. I. On the nilpotency of nil algebras. **90b:17001**

Items with secondary classifications in 17–02
Olive, David I. Loop algebras, QFT and strings. **90i:17035**

17–04 Explicit machine computation and programs (not the theory of computation or programming)

Bergeron, F. A story about computing with roots of unity. **90i:17001**
Grossman, Robert (*with* Larson, Richard G.) Labeled trees and the algebra of differential operators. **90i:17002**
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17–06 Proceedings, conferences, etc.

(Benkart, G. M.) *see* **Lie algebras, Madison 1987, 90d:17001**
(Kac, V. G.) *see* **Infinite-dimensional Lie algebras and groups, 90h:17001**
(Osborn, J. Marshall) *see* **Lie algebras, Madison 1987, 90d:17001**

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Conference:
  Infinite-dimensional Lie Algebras and Groups ★ Infinite-dimensional Lie algebras and groups. **90h:17001**
Infinite-dimensional Lie algebras and groups ★ Infinite-dimensional Lie algebras and groups. **90h:17001**
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Items with secondary classifications in 17–06
Algèbres génétiques ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Colloquium:
  Genetic Algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Genetic algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
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17Axx General nonassociative rings

17A01 General theory

Nimmo, Steven D. Anticommutative derivation alternator rings. **90b:17002**
Nishioka, Michio Noncanonical commutation relations and Jacobi's identity. **90a:17001**
Röhrl, Helmut (*with* Walcher, Sebastian) Some classes of algebras and their derivation algebras. **90b:17003**
Walcher, Sebastian *see* **Röhrl, Helmut, 90b:17003**

17A05 Power-associative

Items with secondary classifications in 17A05

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17A10 Commutative power-associative

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17A15 Noncommutative Jordan algebras

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Fernández López, Antonio *see* **Benslimane, M.; et al., 90e:17001** *and* **Cobalea Vico, Amalia, 90g:17001**
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Wegenkittl, K. *see* **Michor, Peter W.; et al., 90j:17004**

17A30 Algebras satisfying other identities

Allison, B. N. (*with* Schafer, R. D.) Trace form for structurable algebras. **90d:17002**
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— *see also* **Allison, B. N., 90d:17002**
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Widmer, Lamarr *see* **Kleinfeld, Erwin, 90k:17068**

17A35 Division algebras

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— Icosians versus octonions as descriptions of the E_8 lattice. Addendum to: "Division algebras with integral elements" [J. Phys. A 22 (1989), no. 10, 1469–1493; MR 90h:17002] by Koca and N. Ozdes. **90h:17003**
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Items with secondary classifications in 17A35

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Slin'ko, A. M. Locally compact Jordan rings that are close to division rings. **90e:17037**
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Trojan, Allan *see* **Spiegel, Eugene, 90j:16042**

17A36 Automorphisms, derivatives, other operators

Darafsheh, M. R. On commutative nonassociative algebras associated with a group of automorphisms of a 2-design. **90i:17004**
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Items with secondary classifications in 17A36

Nimmo, Steven D. Anticommutative derivation alternator rings. **90b:17002**

17A40 Ternary compositions

Kamiya, Noriaki A structure theory of Freudenthal-Kantor triple systems. II. **90f:17002**
Shaw, Ronald Octonions without octonions. **90d:17004**
— Ternary composition algebras and Hurwitz's theorem. **90g:17003**

Items with secondary classifications in 17A40

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Shaw, Ronald A 2-dimensional quaternionic construction of an 8-dimensional ternary composition algebra. (Italian and Russian summaries) **90k:17005**

17A42 Other n-ary compositions

Items with secondary classifications in 17A42

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17A45 Quadratic algebras (not quadratic Jordan algebras)

Elduque, Alberto Quadratic alternative algebras. **90m:17001**
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Wegenkittl, K. *see* **Michor, Peter W.; et al., 90j:17004**

17A50 Free algebras

Items with secondary classifications in 17A50

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17A60 Structure theory in general nonassociative rings

Slin'ko, A. M. Splitting of a compact ring into the sum of a radical and an inertial subring. **90f:17003**

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17A65 Radical theory in general nonassociative rings

Items with secondary classifications in 17A65

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— The intersection property for radicals. **90m:16012**
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17A70 Super algebras

Backhouse, N. B. (*with* Fellouris, A. G.) The nonuniqueness of supertrace. **90c:17004**
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17A75 Composition algebras

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17Bxx Lie algebras {For Lie groups, see 22Exx.}

17B05 Structure theory

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17B10 Representations, algebraic theory (weights)

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17B30 Solvable, nilpotent algebras

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17B35 Universal enveloping algebras, imbeddings

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Spaltenstein, N. Polynomials over local fields, nilpotent orbits and conjugacy classes in Weyl groups. **90k:20069**
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Unipotent orbits and representations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**

17B40 Automorphisms, derivations, other operators

Arnaudova, Ekaterina Ya. (*with* Dimiev, S. G.; Papaloucas, Loucas; Tatarova, I. I.) Induced derivations on 3-generated polynomial Lie subalgebras. (Bulgarian summary) **90j:17028**
Bouwknegt, Peter Lie algebra automorphisms, the Weyl group, and tables of shift vectors. **90c:17020**
Datskovsky, Boris A. (*with* Stitzinger, Ernest L.) Cohomological criterion for extending derivations. **90d:17013**
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Gagnon, L. Continuous subgroups of the Galilei and Galilei-similitude groups. **90e:17021**
Gelashvili, T. M. Connected projections of representations of Lie algebras. (Russian. English and Georgian summaries) **90j:17029**
Khatskevich, Yu. G. Automorphisms of semisimple real Lie algebras. **90i:17019**
Kostrikin, Alekseĭ Ivanovich Invariant lattices in Lie algebras and their automorphism groups. **90d:17014**
Papaloucas, Loucas *see* **Arnaudova, Ekaterina Ya.; et al., 90j:17028**
Segal, Dan On the automorphism groups of certain Lie algebras. **90e:17022**
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Bratteli, Ola (*with* Jørgensen, Palle E. T.) Conservative derivations and dissipative Laplacians. **90d:46089**
Burgueño, C. *see* **Alcalde, M. T.; et al., 90j:17054**
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Frappat, Luc (*with* Sciarrino, Antonino; Sorba, Paul) Structure of basic Lie superalgebras and of their affine extensions. **90h:17047**
Grabowski, Janusz General Poisson algebras. **90h:17028**
Holgate, Philip Some train algebras that are special triangular. **90m:17044**
Jiang, Jia Fu On the classification of the real simple Lie algebras D_4 by inner conjugation. (Chinese. English summary) **90b:17013**
Jørgensen, Palle E. T. *see* **Bratteli, Ola, 90d:46089**
Krasil′shchik, I. S. Schouten bracket and canonical algebras. **90i:58055**
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Tu, Gui Zhang An elementary proof of the Campbell-Hausdorff formula. (Chinese summary) **90a:22006**
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17B45 Lie algebras of linear algebraic groups [see also 14Lxx and 20Gxx]

Deodhar, Vinay V. An extension of Kazhdan-Lusztig theory. **90e:17023**
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Grundhöfer, Theo Sharply transitive linear groups and nearfields over p-adic fields. **90b:20039**
Mowbray, Miranda The submodule structure of characteristic p Verma modules for groups of type A_1. **90j:20084**
Petrogradskiĭ, V. M. Injective modules over restricted Lie algebras. **90e:17024**
Rybnikov, G. L. Tensor invariants of the Lie algebra $\mathrm{sl}_2(\mathbf{C}[t])$ and fundamental representations of the Lie algebra $\widehat{\mathrm{sp}}_{2n}$. (Russian) **90j:17047**

17B50 Modular Lie algebras

Aboughazi, Rachida Homologie restreinte des p-algèbres de Lie en degré deux. (English summary) [Restricted homology of p-Lie algebras of degree two] **90m:17026**
Brown, Gordon Elliott A class of simple Lie algebras of characteristic three. **90c:17021**
Dzhumadil'daev, A. S. Deformations of the Lie algebras $W_n(\mathbf{m})$. **90h:17020**
Èl'sting, G. O. Homogeneous components of simple generalized contact Lie algebras. **90d:17015**
Gurbanov, Zh. Algebras that are invariant with respect to some irreducible representations of the group SL(n). (Russian. English summary) **90j:17030**
Koreshkov, N. A. A deformation of a Hamiltonian Lie algebra. (Russian) **90m:17027**
Krylyuk, Ya. S. Indices of standard maximal subalgebras of p-algebras of Cartan type of finite characteristic. (Russian) **90k:17036**
Kuznetsov, M. I. Truncated induced modules over transitive Lie algebras of characteristic p. **90k:17037**
Makishev, K. B. Generalized Casimir elements of abelian extensions of the Zassenhaus algebra. (Russian) **90m:17028**
Neuhaus, Ralph Generic polynomials for restricted Lie algebras. **90c:17022**
Panov, A. N. Irreducible representations of maximal dimension of simple Lie algebras over a field of positive characteristic. (Russian) **90k:17038**
Petrogradskiĭ, V. M. Injective modules over restricted Lie algebras. **90e:17024**
Premet, A. A. (*with* Semenov, K. N.) Varieties of residually finite Lie algebras. **90b:17023**
— Regular Cartan subalgebras and nilpotent elements in restricted Lie algebras. **90g:17017**
Qiu, Sen The second cohomology of Witt algebras. (Chinese) **90g:17018**
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Serconek, Shirlei (*with* Wilson, Robert Lee) Forms of restricted simple Lie algebras. **90j:17031**
Strade, Helmut The absolute toral rank of a Lie algebra. **90m:17029**
Varea, Vicente R. The subalgebra lattice of a supersolvable Lie algebra. **90h:17021**
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Winter, David J. Graded Lie p^e-algebras and p^e-closures. **90k:17039**

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Bernard, Denis Vertex operator representations of the quantum affine algebra $\mathscr{U}_q(B_r^{(1)})$. **90f:17016**
Deckhart, Robert W. Modular maximal vectors and the Kostant cone. **90e:17011**
Dzhumadil'daev, A. S. Cohomology of truncated co-induced representations of Lie algebras of positive characteristic. **90e:17026**
Èl'sting, G. O. On the connection between Cartan prolongations of depth 2 and depth 1. **90i:17038**
Farnsteiner, Rolf (*with* Strade, Helmut) On the derived length of solvable Lie algebras. **90a:17008**
— Cohomology groups of infinite-dimensional algebras. **90i:17022**
— Lie theoretic methods in cohomology theory. **90m:17030**
Hailat, Mohammad Q. GW-rootsystems over fields of characteristic seven. **90j:17016**
Osborn, J. Marshall *see* **Benkart, G. M., 90g:17012**
Röhl, Frank A remark on the Loewy-series of certain Hopf algebras. **90e:16013**
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Su, Yu Cai *see* **Yang, Xi An, 90c:17045**
Tyc, Andrzej On F-integrable derivations of the ring of formal power series in characteristic $p > 0$. **90k:14050**
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17B55 Homological methods in Lie algebras

Hanlon, Phil On the complete GL(n, C)-decomposition of the stable cohomology of $\mathrm{gl}_n(A)$. **90k:17040**

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Berger, Roland Algebraic quantization. **90e:81065**
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Carles, R. L'ensemble des algèbres de Lie algébriques n'est pas Zariski-dense dans la variété des algèbres de Lie de dimension $M \geq 9$. [The set of algebraic Lie algebras is not Zariski-dense in the variety of Lie algebras of dimension $M \geq 9$] **90f:17007**
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— (*with* Tsygan, B. L.) Riemann-Roch theorem and Lie algebra cohomology. I. **90k:17041**
Fuks, D. B. *see* **Feĭgin, B. L., 90k:22014**
Gerstenhaber, Murray (*with* Schack, Samuel D.) Bialgebra cohomology, deformations, and quantum groups. **90j:16062**
Jacobsson, Carl *see* **Bøgvad, Rikard, 90i:55020**
Kubo, Fujio (*with* Mimura, Fumitake) Lie structures on differential algebras. **90c:17024**
Mimura, Fumitake *see* **Kubo, Fujio, 90c:17024**
Qiu, Sen The second cohomology of Witt algebras. (Chinese) **90g:17018**
Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. **90c:17014**
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Stasheff, James D. Constrained Poisson algebras and strong homotopy representations. **90a:58057**
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17B56 Cohomology of Lie algebras

Arnal, D. Differential cohomology of $C^\infty(\mathfrak{G}^*)$. **90e:17025**
de Azcárraga, J. A. (*with* Townsend, Paul K.) Superspace geometry and classification of supersymmetric extended objects. **90h:17022**
Deninger, Ch. (*with* Singhof, W.) On the cohomology of nilpotent Lie algebras. (French summary) **90c:17023**
Dubois-Violette, M. Graded differential algebras, B.R.S. algebras and the computation of anomalous terms in gauge theory. **90i:17021**
Dzhumadil'daev, A. S. On the integral and mod p-cohomology of the Lie algebra W_1. **90d:17016**
— Cohomology of truncated co-induced representations of Lie algebras of positive characteristic. **90e:17026**
Farnsteiner, Rolf Cohomology groups of infinite-dimensional algebras. **90i:17022**
— Lie theoretic methods in cohomology theory. **90m:17030**
Feĭgin, B. L. Lie algebras gl(λ) and cohomology of a Lie algebra of differential operators. **90b:17024**
— (*with* Tsygan, B. L.) Riemann-Roch theorem and Lie algebra cohomology. I. **90k:17041**
— (*with* Fialowski, A.) Cohomology of the nilpotent subalgebras of current Lie algebras. **90d:17017**
Fialowski, A. *see* **Feĭgin, B. L., 90d:17017**
Hamasaki, Atsumi Cohomologies of Lie algebras of formal vector fields preserving a foliation. **90h:17023**
Henneaux, Marc Duality theorems in BRST cohomology. **90k:17042**
Judson, Thomas W. Complete filtered Lie algebras and the Spencer cohomology. **90j:17032**
Julia, B. Cohomologies and deformations of "gauge" symmetries. **90i:17023**
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Kirillov, A. A., Jr. Semi-infinite cohomology of Lie superalgebras. (Russian) **90k:17043**
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Muzere, Mark Relative Lie algebra cohomology. **90f:17021**
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Post, G. F. *see* **Leĭtes, D. A., 90j:17033**
Qiu, Sen Cohomology of graded Lie algebras of Cartan type $S(n, \mathbf{m})$. **90h:17024**
— The cohomology of the Virasoro algebra with coefficients in a basic Harish-Chandra module. **90k:17044**
Roger, Claude Cohomology of current Lie algebras. **90b:17025**
Santharoubane, L. J. The second cohomology group for Kac-Moody Lie algebras and Kähler differentials. **90k:17045**
Schicketanz, H. On derivations and cohomology of the graded Lie algebra of vector valued differential forms related to a smooth manifold. **90d:17019**
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Su, Yu Cai Low-dimensional cohomology of Kac-Moody algebras with coefficients in the complex field C. (Chinese. English summary) **90i:17025**
Townsend, Paul K. *see* **de Azcárraga, J. A., 90h:17022**
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Aref'eva, I. Ya. (*with* Volovich, I. V.) Gauge invariant string field theory and nonassociative algebra. **90m:81089**
— (*with* Medvedev, P. B.; Urošević, B. V.; Zubarev, A. P.) BRST cohomology and generalized bosonization of superconformal ghosts. **90k:81176**
Bøgvad, Rikard (*with* Jacobsson, Carl) Graded Lie algebras of depth one. **90i:55020**
Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. **90e:22018**
Cappiello, Luigi (*with* Knecht, Marc; Ouvry, Stéphane; Stern, Jan) BRST construction of interacting gauge theories of higher spin fields. **90k:81189**
Cherednik, I. V. q-analogues of Gel'fand-Tsetlin bases. **90c:17017**
Cline, E. (*with* Parshall, B.; Scott, Leonard L.) Algebraic stratification in representation categories. **90d:18004**
De Wilde, M. (*with* Lecomte, Pierre B. A.) Formal deformations of the Poisson Lie algebra of a symplectic manifold and star-products. Existence, equivalence, derivations. **90c:58052**
Dzhumadil'daev, A. S. Deformations of the Lie algebras $W_n(\mathbf{m})$. **90h:17020**
Èl'sting, G. O. On the connection between Cartan prolongations of depth 2 and depth 1. **90i:17038**
Feĭgin, B. L. (*with* Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) **90k:22014**
— On the cohomology of the Lie algebra of vector fields and of the current algebra. **90c:17026**
Fialowski, A. An example of formal deformations of Lie algebras. **90c:17027**
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Hanlon, Phil On the complete GL(n, C)-decomposition of the stable cohomology of $\mathrm{gl}_n(A)$. **90k:17040**
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Kani, I. (*with* Mansfield, P.) Constructing the Lorentz anomaly out of the Virasoro anomaly. **90c:81191**
Kastler, Daniel The Koszul formulae for graded Lie-Cartan pairs (super BRS operator). **90g:17028**
Knecht, Marc *see* **Cappiello, Luigi; et al., 90k:81189**
Koszul, Jean-Louis Les superalgèbres de Lie W(n) et leurs représentations. [The Lie superalgebras W(n) and their representations] **90d:17006**
Lecomte, Pierre B. A. *see* **De Wilde, M., 90c:58052**
Mansfield, P. *see* **Kani, I., 90c:81191**
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Mélotte, D. Cohomologie de Chevalley associée aux variétés de Poisson. (English summary) [The Chevalley cohomology associated with Poisson manifolds] **90j:17038**
Mitra, Bani (*with* Tripathy, K. C.) Cohomology and reducibility of representations of semisimple Γ-graded Lie algebras. **90c:17040**
Ouvry, Stéphane *see* **Cappiello, Luigi; et al., 90k:81189**
Parshall, B. *see* **Cline, E.; et al., 90d:18004**
Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. **90e:32035**
Qiu, Sen The second cohomology of Witt algebras. (Chinese) **90g:17018**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 90c:16016** *and* **90c:16017**
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Shi, Jian Yi Some recent developments on the cells of affine Weyl groups. **90a:20101**
Spiegelglas, M. Q_{BRST} and negative norm states: an application to the bosonic string. **90j:81246**
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Takhtadzhyan, L. A. The noncommutative homology of quantum tori. **90m:18015**
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Umble, Ronald N. Homotopy conditions that determine rational homotopy type. **90i:55021**
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Volovich, I. V. *see* **Aref'eva, I. Ya., 90m:81089**
Zubarev, A. P. *see* **Aref'eva, I. Ya.; et al., 90k:81176**

17B60 Lie rings associated with other structures (associative, Jordan, etc.) [see also 15A30, 16A68, 17C40, 17C50]

Hilgert, Joachim Spectrally ordered Lie algebras. **90f:17023**
Kubo, Fujio (*with* Mimura, Fumitake) Lie structures on differential algebras. **90c:17024**
Mimura, Fumitake *see* **Kubo, Fujio, 90c:17024**
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Zel'manov, E. I. Some problems in the theory of groups and Lie algebras. **90f:17024**

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Duchamp, G. (*with* Thibon, J.-Y.) Le support de l'algebre de Lie libre. (English summary) [The support of the free Lie algebra] **90h:17007**
Farkas, Daniel R. (*with* Linnell, P. A.) Zero divisors in group rings: something old, something new. **90k:16011**
Ledger, A. J. (*with* Shahin, A. M.) The symmetric space SO$(2n)$/U(n). **90k:53088**
Linnell, P. A. *see* **Farkas, Daniel R., 90k:16011**
Mizuhara, Akira Affine representations of nilpotent Lie algebras and left symmetric algebras. **90j:17022**
Schafer, R. D. *see* **Allison, B. N., 90d:17002**
Seeley, Craig (*with* Yau, Stephen S.-T.) Variation of complex structures and variation of Lie algebras. **90k:32067**
Shahin, A. M. *see* **Ledger, A. J., 90k:53088**
Sharma, Rajendra Kumar (*with* Srivastava, J. B.) Lie ideals in group rings. **90k:16012**
Skryabin, S. M. Regular Lie rings of derivations. **90c:13026**
Srivastava, J. B. *see* **Sharma, Rajendra Kumar, 90k:16012**
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Wehrfritz, B. A. F. Some skew linear groups associated with Lie algebras of characteristic zero. **90c:20062**
Yau, Stephen S.-T. *see* **Seeley, Craig, 90k:32067**
Zerck, Rainer On the fixed points of the Lie ring associated with a free presentation of a finite group. **90d:20072**

17B65 Infinite-dimensional Lie algebras [see also 22E65]

Bernard, Denis Towards generalized Macdonald's identities. **90j:17034**
Bilal, Adel A remark on the $N\to\infty$ limit of W_N-algebras. **90j:17035**
Bonora, L. (*with* Matone, Marco; Rinaldi, M.) Relation between representations of KN and Virasoro algebras. **90f:17025**
Bremner, Murray R. Tensor products of unitarizable representations of the Virasoro algebra with central charge $\frac{1}{2}$. **90e:17027**
Chaichian, M. (*with* Leĭtes, D. A.; Lukierski, J.) New $N=6$ infinite-dimensional superalgebra with central extension. **90h:17025**
Chari, Vyjayanthi *see* **Pressley, Andrew, 90h:17033**
Dobrev, V. K. A Weyl group for the Virasoro and $N=1$ super-Virasoro algebras. **90k:17046**
Dodd, R. K. A note on the Lie algebras $\mathrm{g}(m\infty)$. **90k:17047**
Duncan, T. E. Brownian motion and affine Lie algebras. **90f:17026**
Eguchi, Tohru (*with* Ooguri, Hirosi) Differential equations for characters of Virasoro and affine Lie algebras. **90b:17026**
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Fairlie, D. B. (*with* Fletcher, Paul; Nuyts, J.) Eigenvalue equations for Krichever-Novikov algebras. **90j:17036**
— (*with* Zachos, Cosmas K.) Infinite-dimensional algebras, sine brackets, and SU(∞). **90f:17027**
— *see also* **Uretsky, Jack L., 90c:17032**
Feĭgin, B. L. (*with* Leĭtes, D. A.) New Lie superalgebras of string theories. **90g:17019**
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Fialowski, A. An example of formal deformations of Lie algebras. **90c:17027**
Figueroa-O'Farrill, José M. (*with* Kimura, Takashi) Some results on the BRST cohomology of the NSR string. **90d:17020**
Fletcher, Paul *see* **Fairlie, D. B.; et al., 90j:17036**
Frappat, Luc Vertex operator representation of OSp$(M|N)^{(1)}$. **90a:17012**
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17B99 None of the above, but in this section

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17Cxx Jordan algebras (commutative)

17C05 Identities

D'Amour, Alain (*with* McCrimmon, Kevin) G_8 and G_9 are equivalent Jordan s-identities. **90k:17065**

Drenski, Veselin S. On the identities of the three-dimensional simple Jordan algebra. (Russian summary) **90f:17045**

Hentzel, I. R. (*with* Peresi, L. A.) Almost Jordan rings. **90a:17021**

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Peresi, L. A. *see* **Hentzel, I. R., 90a:17021**

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Sverchkov, S. R. Reduced-free nonspecial Jordan algebras. **90f:17046**

Vaĭs, A. Ya. (*with* Zel′manov, E. I.) Kemer's theorem for finitely generated Jordan algebras. (Russian) **90m:17042**

Zel′manov, E. I. *see* **Vaĭs, A. Ya., 90m:17042**

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Jacobs, D. P. *see* **Hentzel, I. R., 90c:17001**

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17C10 Structure theory

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Medvedev, Yu. A. Jordan A-algebras. (Russian) **90f:17047**

— Free Jordan algebras. **90c:17046**

Skosyrskiĭ, V. G. Radicals of Jordan algebras. **90b:17041**

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Baribeau, Line *see* **Aupetit, Bernard, 90m:46085**

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Peresi, L. A. *see* **Hentzel, I. R., 90a:17021**

Zel′manov, E. I. On the nilpotency of nil algebras. **90b:17001**

17C15 Representations

Corrigan, E. F. Aspects of Jordan algebras and vertex operators. (*see* **90m:81002**)

Popuţa, A. (*with* Popuţa, V.) Paires de Jordan semi-linéaires. (Romanian summary) [Semilinear Jordan pairs] **90g:17029**

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Chu, Cho-Ho (*with* Iochum, Bruno; Loupias, Guy) Grothendieck's theorem and factorization of operators in Jordan triples. **90c:46087**

Corrigan, E. F. (*with* Hollowood, T. J.) The exceptional Jordan algebra and the superstring. **90j:81183**

Hollowood, T. J. *see* **Corrigan, E. F., 90j:81183**

Iochum, Bruno *see* **Chu, Cho-Ho; et al., 90c:46087**

Loupias, Guy *see* **Chu, Cho-Ho; et al., 90c:46087**

Medvedev, Yu. A. Jordan A-algebras. (Russian) **90f:17047**

17C20 Simple, semisimple algebras

Kaneyuki, Soji The Sylvester's law of inertia for Jordan algebras. **90d:17028**

Schwarz, Thomas Simple exceptional Jordan triple systems in characteristic 2. **90c:17047**

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Cobalea Vico, Amalia (*with* Fernández López, Antonio) Prime noncommutative Jordan algebras with nonzero socle and central closure. **90g:17001**
Fernández López, Antonio *see* **Cobalea Vico, Amalia, 90g:17001**
Medvedev, Yu. A. Jordan *A*-algebras. (Russian) **90f:17047**
Vasilovskiĭ, S. Yu. The bimodule structure of some simple Jordan algebras with respect to associative Frobenius subalgebras. **90f:17048**

17C25 Universal enveloping algebras

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Clerc, J.-L. Fonctions *K* de Bessel pour les algèbres de Jordan. (English summary) [Bessel *K*-functions for Jordan algebras] **90d:43007**
Lagutina, L. A. Jordan homomorphism of associative algebras with involution. **90k:16013**
McCrimmon, Kevin The Zel′manov approach to Jordan homomorphisms of associative algebras. **90j:17053**
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Sverchkov, S. R. Strongly associative Jordan algebras. **90b:17042**
Vaksman, L. L. (*with* Soĭbel′man, Ya. S.) An algebra of functions on the quantum group SU(2). **90f:17019**

17C30 Automorphisms, derivations, other operators

McCrimmon, Kevin The Zel′manov approach to Jordan homomorphisms of associative algebras. **90j:17053**

Items with secondary classifications in 17C30

Lagutina, L. A. Jordan homomorphism of associative algebras with involution. **90k:16013**

17C35 Formally real domains of positivity [see also 32Nxx]

Items with secondary classifications in 17C35

Faraut, J. (*with* Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric cones] **90a:22010**
Kaneyuki, Soji The Sylvester's law of inertia for Jordan algebras. **90d:17028**
Korányi, A. *see* **Faraut, J., 90a:22010**
Medvedev, Yu. A. Jordan *A*-algebras. (Russian) **90f:17047**

17C40 Exceptional Jordan algebras and associated Lie groups

Günaydin, Murat (*with* Hyun, S. J.) Affine exceptional Jordan algebra and vertex operators. **90e:17036**
Hyun, S. J. *see* **Günaydin, Murat, 90e:17036**
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Cederwall, Martin Jordan algebra dynamics. **90f:70021**
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Faulkner, John R. A geometric construction of Moufang planes. **90f:51003**
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Joshi, G. C. *see* **Foot, R., 90c:81176**

17C50 Jordan rings associated with other structures [see also 16A68, 17B60]

Slin′ko, A. M. Locally compact Jordan rings that are close to division rings. **90e:17037**

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Medvedev, Yu. A. Free Jordan algebras. **90c:17046**
Sverchkov, S. R. Strongly associative Jordan algebras. **90b:17042**
— Reduced-free nonspecial Jordan algebras. **90f:17046**
Vaĭs, A. Ya. (*with* Zel′manov, E. I.) Kemer's theorem for finitely generated Jordan algebras. (Russian) **90m:17042**
Zel′manov, E. I. *see* **Vaĭs, A. Ya., 90m:17042**

17C65 Infinite-dimensional Jordan algebras

Items with secondary classifications in 17C65

Alimov, A. A. Alternators on Jordan algebras of unbounded operators. (Russian) **90b:47083**
Aupetit, Bernard (*with* Baribeau, Line) Sur le socle dans les algèbres de Jordan-Banach. [On the socle of Jordan-Banach algebras] **90m:46085**
Ayupov, Sh. A. (*with* Gol′dshteĭn, M. Sh.; Tadzhibaev, B. R.) Monotonically complete Jordan algebras with a *p*-additive norm. (Russian) **90d:46074**
— On the existence of a trace on a modular *JW*-factor. **90i:46123**
— (*with* Usmanov, Sh. M.) Diameters of state spaces of Jordan Banach algebras. **90g:46102**
Baribeau, Line *see* **Aupetit, Bernard, 90m:46085**
Benslimane, M. (*with* Fernández López, Antonio; Kaïdi, El Amin Mokhtar) Caractérisation des algèbres de Jordan-Banach de capacité finie. [Characterization of finite-capacity Jordan-Banach algebra] **90e:17001**
Chu, Cho-Ho (*with* Iochum, Bruno) Weakly compact operators on Jordan triples. **90c:46086**
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Fernández López, Antonio (*with* García Rus, Eulalia) A characterization of the elements of the socle of a Jordan algebra. **90d:17027**
— *see also* **Benslimane, M.; et al., 90e:17001**
Friedman, Yaakov (*with* Russo, Bernard) Affine structure of facially symmetric spaces. **90g:46099**
— (*with* Russo, Bernard) Some affine geometric aspects of operator algebras. **90d:46087**
García Rus, Eulalia *see* **Fernández López, Antonio, 90d:17027**
Gol′dshteĭn, M. Sh. *see* **Ayupov, Sh. A.; et al., 90d:46074**
Iochum, Bruno *see* **Chu, Cho-Ho, 90c:46086; 90c:46087** *and* **90d:46086**
Kaïdi, El Amin Mokhtar *see* **Benslimane, M.; et al., 90e:17001**
Lorentz, Kai On the structure of the similarity orbits of Jordan operators as analytic homogeneous manifolds. **90i:46092**
Loupias, Guy *see* **Chu, Cho-Ho; et al., 90c:46087**
Rao, S. Devadoss (*with* Rema, P. S.) Gleason-Kahane-Zalazko [Żelasko] theorem for Banach Jordan algebras and triple systems. **90e:46040**
Rema, P. S. *see* **Rao, S. Devadoss, 90e:46040**
Russo, Bernard *see* **Friedman, Yaakov, 90d:46087** *and* **90g:46099**
Rüttimann, Gottfried T. *see* **Edwards, C. M., 90b:46129**
Tadzhibaev, B. R. *see* **Ayupov, Sh. A.; et al., 90d:46074**
Timoney, Richard M. Weak*-continuity of Jordan triple products and applications. **90a:46179**
Usmanov, Sh. M. Diameter of the state space of a σ-finite JW-factor of type III_λ, $0<\lambda<1$. (Russian) **90g:46101**
— *see also* **Ayupov, Sh. A., 90g:46102**
Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^*-algebras and complex Hilbert spaces. **90e:46066**
Zakirov, F. M. Classification of Jordan dynamical systems. (Russian) **90f:46111**
Zhang, Yong Ping On a conjecture of Saitō. (Chinese. English summary) **90m:46120**

17C99 None of the above, but in this section

Items with secondary classifications in 17C99

Allison, B. N. (*with* Schafer, R. D.) Trace form for structurable algebras. **90d:17002**
Foot, R. (*with* Joshi, G. C.) A natural framework for the minimal supersymmetric gauge theories. **90c:81110**
Hentzel, I. R. (*with* Peresi, L. A.) Semi-prime Bernstein algebras. **90m:17009**
Joshi, G. C. *see* **Foot, R., 90c:81110**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Peresi, L. A. *see* **Hentzel, I. R., 90m:17009**
Ruegg, Henri Fermions and Jordan matrices. **90g:81267**
Schafer, R. D. Invariant forms on central simple structurable algebras. **90d:17003**
— *see also* **Allison, B. N., 90d:17002**

17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Chein, Orin (*with* Goodaire, Edgar G.) Is a right alternative loop ring alternative? **90b:17043**
Chu, Hua The elements of finite order in Cayley algebras. **90b:17044**
González, Santos The complete ring of quotients of a reduced alternative ring. Orthogonal completion. **90i:17041**
— Orthogonally complete alternative rings. **90e:17038**
Goodaire, Edgar G. *see* **Chein, Orin, 90b:17043**
Hentzel, I. R. The Andrunakievich lemma for alternative rings. **90k:17066**
Pchelintsev, S. V. Locally Noetherian and locally representable varieties of alternative algebras. **90e:17039**
Racine, Michel L. Minimal identities of octonion algebras. **90c:17048**

Items with secondary classifications in 17D05

Beĭdar, K. I. (*with* Glavatskiĭ, S. T.; Mikhalëv, A. V.) Semisimple classes and lower radicals of topological nonassociative algebras. (Russian. English summary) **90h:16018**
Dedkov, A. I. Some properties of quasi-associative and quasi-alternative algebras. **90i:17003**
Elduque, Alberto Quadratic alternative algebras. **90m:17001**
Glavatskiĭ, S. T. *see* **Beĭdar, K. I.; et al., 90h:16018**
Kanemaki, Shôji Hurwitz pairs and octonions. **90e:53045**
Kibler, M. *see* **Lambert, Dominique, 90j:58049**
Kleinfeld, Erwin (*with* Widmer, Lamarr) Rings satisfying $(x,y,z)=(y,z,x)$. **90k:17068**
Lambert, Dominique (*with* Kibler, M.) Levi-Civita, Kustaanheimo-Stiefel and other transformations. **90j:58049**
Lausch, Huberta Automorphisms of Cayley algebras over finite fields. **90f:17001**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Mikhalëv, A. V. *see* **Beĭdar, K. I.; et al., 90h:16018**
Nôno, Kiyoharu On the octonionic linearization of Laplacian and octonionic function theory. **90i:30079**
Shaw, Ronald Octonions without octonions. **90d:17004**
Slin′ko, A. M. Locally compact Jordan rings that are close to division rings. **90e:17037**
Wene, G. P. The metric of a space and quadratic algebras. **90a:17002**
Widmer, Lamarr *see* **Kleinfeld, Erwin, 90k:17068**
Zel′manov, E. I. On the nilpotency of nil algebras. **90b:17001**

17D10 Mal′cev (Mal′tsev) rings

Elduque, Alberto Lattice isomorphisms of Malcev algebras. **90k:17067**
— On semisimple Mal′cev algebras. **90b:17045**
Filippov, V. T. A T ideal of a Mal′tsev algebra. **90b:17046**
Stitzinger, Ernest L. The structure algebras of Mal′cev algebras. **90d:17029**

Items with secondary classifications in 17D10

Osipov, È. P. The central extension of Kac-Moody-Mal′cev algebras. **90j:17046**
— Algebras of Kac-Moody-Mal′cev type on genus-g Riemann surfaces. **90h:17032**

17D15 Right alternative rings

Dashdorzh, Ts. Identities of simple right alternative algebras. (Russian) **90e:17040**

Items with secondary classifications in 17D15

Hentzel, I. R. (*with* Jacobs, D. P.) Jordan and right alternative counterexamples. **90c:17001**
Jacobs, D. P. *see* **Hentzel, I. R., 90c:17001**

17D20 (γ, δ)-rings

Ng, Seong Nam Nil $(1, 1)$ algebras of bounded indices. **90e:17041**

17D25 Lie admissible algebras

Myung, Hyo Chul (*with* Sagle, Arthur A.) On Lie-admissible mutations of associative algebras. **90c:17049**
Sagle, Arthur A. *see* **Myung, Hyo Chul, 90c:17049**

Items with secondary classifications in 17D25

Michor, Peter W. (*with* Ruppert, Wolfgang A. F.; Wegenkittl, K.) On a construction connecting Lie algebras with general algebras. **90j:17004**
Ruppert, Wolfgang A. F. *see* **Michor, Peter W.; et al., 90j:17004**
Wegenkittl, K. *see* **Michor, Peter W.; et al., 90j:17004**

17D92 Genetic algebras

Alcalde, M. T. (*with* Burgueño, C.; Labra, A.; Micali, A.) Automorphisms and derivations of a Bernstein algebra over k, char $k = 2$. (Spanish summary) **90j:17054**
— (*with* Baeza, Rodolfo; Burgueño, C.) Autour des algèbres de Bernstein. [Concerning Bernstein algebras] **90j:17055**
— (*with* Burgueño, C.; Labra, A.; Micali, A.) Sur les algèbres de Bernstein. [On Bernstein algebras] **90b:17047**
Baeza, Rodolfo *see* **Alcalde, M. T.; et al., 90j:17055**
Burgueño, C. *see* **Alcalde, M. T.; et al., 90b:17047; 90j:17054** *and* **90j:17055**
Costa, Roberto C. F. A note on Bernstein algebras. **90b:17049**
— Principal train algebras of rank 3 and dimension ≤ 5. **90m:17043**
Holgate, Philip Some train algebras that are special triangular. **90m:17044**
Labra, A. *see* **Alcalde, M. T.; et al., 90b:17047** *and* **90j:17054**
Mallol, Cristian (*with* Micali, A.) Sur les algèbres de Bernstein. II. [On Bernstein algebras. II] **90d:17030**
Micali, A. *see* **Alcalde, M. T.; et al., 90b:17047; Mallol, Cristian, 90d:17030** *and* **Alcalde, M. T.; et al., 90j:17054**
Ouattara, Moussa ★ Algèbres de Jordan et algèbres génétiques. (French) [Jordan algebras and genetic algebras] **90a:17022**
Wõrz-Busekros, A. Further remarks on Bernstein algebras. **90b:17048**

Items listed otherwise than by author

Algèbres génétiques ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Colloquium:
  Genetic Algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Genetic algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Montpellier ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**

Items with secondary classifications in 17D92

Durand-Alegría, A. I. (*with* López-Sánchez, J.; Pérez de Vargas, A.) Zygotic algebra for two-linked loci with sexually different recombination and mutation rates. **90j:92013**
Hentzel, I. R. (*with* Peresi, L. A.) Semi-prime Bernstein algebras. **90m:17009**
López-Sánchez, J. *see* **Durand-Alegría, A. I.; et al., 90j:92013**
Peresi, L. A. *see* **Hentzel, I. R., 90m:17009**
Pérez de Vargas, A. *see* **Durand-Alegría, A. I.; et al., 90j:92013**

17D99 None of the above, but in this section

Ganesan, N. *see* **Tamizh Chelvam, T., 90j:17057**
Kleinfeld, Erwin (*with* Widmer, Lamarr) Rings satisfying $(x, y, z) = (y, z, x)$. **90k:17068**
Manley, P. L. A hybrid algebra with duality. **90k:17069**
Tamizh Chelvam, T. Tertiary decomposition in nonassociative near-rings. **90j:17056**
— (*with* Ganesan, N.) On finite nonassociative near-rings. **90j:17057**
Widmer, Lamarr *see* **Kleinfeld, Erwin, 90k:17068**

Items with secondary classifications in 17D99

Akivis, M. A. (*with* Shelekhov, A. M.) On subwebs of 3-webs and subalgebras of local W_k-algebras. **90d:53028**
Mikheev, P. O. (*with* Sabinin, L. V.) Smooth quasigroups and geometry. (Russian) **90b:53063**
Render, Hermann An order-theoretic approach to involutive algebras. **90c:46068**
Sabinin, L. V. *see* **Mikheev, P. O., 90b:53063**
Schwarz, Thomas Tangeability of homogeneous convex cones. **90a:52006**
Shelekhov, A. M. *see* **Akivis, M. A., 90d:53028**

18–XX Category theory, homological algebra

18–01 Elementary exposition; textbooks

Items with secondary classifications in 18–01

Hilton, Peter John (*with* Wu, Yel Chiang) ★ A course in modern algebra. **90j:00003**
(Reid, Miles) *see* **Shafarevich, I. R., 90k:00010**
Shafarevich, I. R. ★ Noţiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] **90k:00009**
— ★ Algebra. I. **90k:00010**
(Spircu, T.) *see* **Shafarevich, I. R., 90k:00009**
Wu, Yel Chiang *see* **Hilton, Peter John, 90j:00003**

18–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 18–02

Coppey, L. (*with* Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] **90b:18001**
Cordier, J.-M. (*with* Porter, Timothy) ★ Shape theory. **90f:54030**
Dodson, C. T. J. ★ Categories, bundles and spacetime topology. **90c:53164**
Lair, C. *see* **Coppey, L., 90b:18001**
Porter, Timothy *see* **Cordier, J.-M., 90f:54030**

18–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 18–03

Mac Lane, Saunders Concepts and categories in perspective. **90k:01019a**
— Addendum: "Concepts and categories in perspective". **90k:01019b**

18–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 18–04

Bruner, Robert R. Calculation of large Ext modules. **90g:18010**

18–06 Proceedings, conferences, etc.

(**Adámek, Jiří**) *see* **Categorical topology and its relation to analysis, algebra and combinatorics, 90m:18002**
(**Jardine, J. F.**) *see* **Algebraic K-theory: connections with geometry and topology, 90m:18001**
(**Kuku, A. O.**) *see* **Proceedings: Research Symposium on K-Theory and its Applications, 90a:18001**
(**Mac Lane, Saunders**) *see* **Categorical topology and its relation to analysis, algebra and combinatorics, 90m:18002**
(**Snaith, Victor**) *see* **Algebraic K-theory: connections with geometry and topology, 90m:18001**
(**Weibel, Charles A.**) *see* **Proceedings: Research Symposium on K-Theory and its Applications, 90a:18001**

Items listed otherwise than by author

Algebraic K-theory: connections with geometry and topology ★ Algebraic K-theory: connections with geometry and topology. **90m:18001**
Categorical topology and its relation to analysis, algebra and combinatorics ★ Categorical topology and its relation to analysis, algebra and combinatorics. **90m:18002**
Conference:
  Categorical Topology and its Relation to Analysis, Algebra and Combinatorics ★ Categorical topology and its relation to analysis, algebra and combinatorics. **90m:18002**
Ibadan ★ Proceedings of Research Symposium on K-Theory and its Applications. **90a:18001**
Lake Louise, AB ★ Algebraic K-theory: connections with geometry and topology. **90m:18001**
NATO Advanced Study Institute:
  Algebraic K-Theory: Connections with Geometry and Topology ★ Algebraic K-theory: connections with geometry and topology. **90m:18001**
Prague ★ Categorical topology and its relation to analysis, algebra and combinatorics. **90m:18002**
Proceedings:
  Research Symposium on K-Theory and its Applications ★ Proceedings of Research Symposium on K-Theory and its Applications. **90a:18001**
Symposium:
  K-Theory and its Applications ★ Proceedings of Research Symposium on K-Theory and its Applications. **90a:18001**

Items with secondary classifications in 18–06

(**Borceux, F.**) *see* **Proceedings: Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme, 90h:00020**
(**Dybjer, P.**) *see* **Category theory and computer science, 90m:68002**
(**Ehrig, Hartmut**) *see* **Categorical methods in computer science, 90k:68003**
(**Herrlich, Horst**) *see* **Categorical methods in computer science, 90k:68003**
(**Kreowski, Hans-Jörg**) *see* **Categorical methods in computer science, 90k:68003**
(**Lavendhomme, R.**) *see* **Proceedings: Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme, 90h:00020**
(**Pitt, D. H.**) *see* **Category theory and computer science, 90m:68002**
(**Pitts, Andrew M.**) *see* **Category theory and computer science, 90m:68002**
(**Poigné, A.**) *see* **Category theory and computer science, 90m:68002**

(Preuss, Gerhard) *see* **Categorical methods in computer science, 90k:68003**
(Rydeheard, David E.) *see* **Category theory and computer science, 90m:68002**

Items listed otherwise than by author

Berlin ★ Categorical methods in computer science. **90k:68003**
Categorical methods in computer science ★ Categorical methods in computer science. **90k:68003**
Category theory and computer science ★ Category theory and computer science. **90m:68002**
Colloquium:
  Category Theory ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. **90h:00020**
Conference:
  Category Theory and Computer Science ★ Category theory and computer science. **90m:68002**
Lecture Notes in Computer Science ★ Categorical methods in computer science. **90k:68003**
— ★ Category theory and computer science. **90m:68002**
Louvain-la-Neuve ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. **90h:00020**
Manchester ★ Category theory and computer science. **90m:68002**
Proceedings:
  Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme ★ Proceedings of the Colloquium in Honor of the Sixtieth Birthday of René Lavendhomme. **90h:00020**
Workshop:
  Categorical Methods in Computer Science with Aspects from Topology ★ Categorical methods in computer science. **90k:68003**
  Data Type ★ Categorical methods in computer science. **90k:68003**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Rosolini, G. Representation theorems for *p*-categories. **90e:18001**
Tulczyjew, W. M. (*with* Zakrzewski, Stanisław) Partial categories. (Italian summary) **90h:18001a**
— (*with* Zakrzewski, Stanisław) Composition classes and partial categories. (Italian summary) **90h:18001b**
Zakrzewski, Stanisław *see* **Tulczyjew, W. M., 90h:18001a** *and* **90h:18001b**

Items with secondary classifications in 18A05

Lausch, Hans (*with* Przeworska-Rolewicz, Danuta) Pseudocategories, para-algebras and linear operators. **90b:47003**
Przeworska-Rolewicz, Danuta *see* **Lausch, Hans, 90b:47003**

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

Coppey, L. (*with* Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] **90b:18001**
Guitart, René On the geometry of computations. II. **90g:18001**
Lair, C. *see* **Coppey, L., 90b:18001**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Ageron, Pierre Sémantique catégorique des types: comprendre le système F. (English summary) [The category-theoretic semantics of types: understanding the system F] **90g:18002**

Items with secondary classifications in 18A15

Ghilardi, S. (*with* Meloni, G. C.) Modal and tense predicate logic: models in presheaves and categorical conceptualization. **90b:03019**
Meloni, G. C. *see* **Ghilardi, S., 90b:03019**
Pedrosa, Renato H. de L. (*with* Sette, Antonio-M. A.) A representation theorem for languages with generalized quantifiers through back-and-forth methods. **90e:03044**
Sato, Hiroyuki E-ccc: between ccc and topos. **90e:68068**
Seely, R. A. G. Linear logic, $*$-autonomous categories and cofree coalgebras. **90h:03052**
Sette, Antonio-M. A. *see* **Pedrosa, Renato H. de L., 90e:03044**
Vauzeilles, Jacqueline Cut-elimination and interpolation of Ω-logic. **90k:03055**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Burmeister, Peter (*with* Wojdyło, Bolesław) A category theoretical background for homomorphism theorems. **90m:18003**
Wojdyło, Bolesław *see* **Burmeister, Peter, 90m:18003**
Yetter, David N. Corrections to: "On right adjoints to exponential functors" [J. Pure Appl. Algebra 45 (1987), no. 3, 287–304; MR 88f:18002]. **90c:18001**

Items with secondary classifications in 18A20

Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) **90m:54015**
Puystjens, R. Some aspects of generalized invertibility. **90k:47004**
Schwab, Emil Über einen durch reguläre Einheiten definierten Funktor im Falle der inversen Kategorien. [On a functor, defined by regular units, in the case of inverse categories] **90b:18004**

18A22 Special properties of functors (faithful, full, etc.)

Hébert, Michel On the fullness of certain functors. **90j:18001**
Verschoren, A. The sheaf representation of a Grothendieck category. **90h:18002**
Yu, Yong Xi[1] On the bijective half-functors. **90j:18002**

Items with secondary classifications in 18A22

Dzhibladze, M. A. Geometric morphisms and indexed topoi. (Russian. English summary) **90m:18005**
Koslowski, Jürgen Topological hulls revisited. **90i:18005**
Prószyński, Andrzej Equationally definable functors and polynomial mappings. **90c:13007**
Savchenko, A. G. A criterion for isomorphism of the finite-power functor and the power functor. (Russian) **90m:18008**

18A25 Functor categories, comma categories

Items with secondary classifications in 18A25

Power, A. J. A general coherence result. **90k:18007**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Items with secondary classifications in 18A30

Crstici, Borislav (*with* Dăianu, Dan) Projective limits in a module *a*-category. (Romanian summary) **90h:16063**
Dăianu, Dan *see* **Crstici, Borislav, 90h:16063**
Fernández Vilaboa, J. M. (*with* López López, M. P.) Cleft comodule triples in a symmetric closed category. **90e:16010**
Jackowski, S. (*with* McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. **90m:55012**
López López, M. P. *see* **Fernández Vilaboa, J. M., 90e:16010**
McClure, James E. *see* **Jackowski, S., 90m:55012**
Rosolini, G. Representation theorems for *p*-categories. **90e:18001**
Singer, Boris Approach systems. **90f:28011**

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

Wells, Charles F. Wreath product decomposition of categories. I, II. **90d:18001**

Items with secondary classifications in 18A32

Rosolini, G. Representation theorems for *p*-categories. **90e:18001**

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Tholen, Walter (*with* Tozzi, Anna) Completions of categories and initial completions. (French summary) **90j:18003**
Tozzi, Anna *see* **Tholen, Walter, 90j:18003**

Items with secondary classifications in 18A35

Ageron, Pierre Les catégories localement (multi)présentables comme domaines de Scott. [Locally (multi)presentable categories as Scott domains] **90k:18008**
Dăianu, Dan On the completeness of group *a*-category. **90e:20047**
Day, Brian J. (*with* Street, Ross) Localisation of locally presentable categories. **90h:18012**
Girard, Jean-Yves Normal functors, power series and λ-calculus. **90e:03015**
Rosický, J. (*with* Tholen, Walter) Orthogonal and prereflective subcategories. (French summary) **90b:18003**
Street, Ross *see* **Day, Brian J., 90h:18012**
Tholen, Walter *see* **Rosický, J., 90b:18003**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Adámek, Jiří (*with* Rosický, J.; Trnková, Věra) Are all limit-closed subcategories of locally presentable categories reflective? **90b:18002**
Choban, M. M. General conditions for the existence of free objects. (Russian. English summary) **90m:18004**
Deleanu, Aristide A generalization of Artin-Mazur completion and rigid completion functors in homotopy theory. **90j:18004**
Rosický, J. (*with* Tholen, Walter) Orthogonal and prereflective subcategories. (French summary) **90b:18003**
— *see also* **Adámek, Jiří; et al., 90b:18002**
Tholen, Walter *see* **Rosický, J., 90b:18003**
Trnková, Věra *see* **Adámek, Jiří; et al., 90b:18002**

Items with secondary classifications in 18A40

Adámek, Jiří *see* **Trnková, Věra; et al., 90e:18004**
Aguadé, J. Computing Lannes *T* functor. **90h:55026**
Benkõ, I. Exactness of the adjunction functor in the category of locally convex spaces. (*see* **90j:00021**)
Botnaru, D. V. Relative torsion theories of the category of separated locally convex spaces. (Russian) **90b:46132**
Cordier, J.-M. (*with* Porter, Timothy) ★ Shape theory. **90f:54030**
Day, Brian J. (*with* Street, Ross) Localisation of locally presentable categories. **90h:18012**
Hušek, M. *see* **Trnková, Věra, 90d:54074**

Kashu, A. I. Fundamental functors of categories of modules, and lattices of submodules. I. (Russian) **90f:16041**
Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) **90m:54015**
Lowen, Robert (*with* Srivastava, Arun Kumar^2) FTS$_0$: the epireflective hull of the Sierpiński object in FTS. **90d:54015**
MacDonald, John L. (*with* Stone, Arthur L.) Soft adjunction between 2-categories. **90i:18004**
Porter, Timothy *see* **Cordier, J.-M., 90f:54030**
Rosický, J. *see* **Trnková, Věra; et al., 90e:18004**
Srivastava, Arun Kumar^2 *see* **Lowen, Robert, 90d:54015**
Stone, Arthur L. *see* **MacDonald, John L., 90i:18004**
Stramaccia, Luciano Homotopy preserving functors. (French summary) **90d:55011**
— Some remarks on preservation of topological products. **90h:54012**
Street, Ross *see* **Day, Brian J., 90h:18012**
Trnková, Věra (*with* Hušek, M.) Nonconstant continuous maps of modifications of topological spaces. **90d:54074**
— (*with* Adámek, Jiří; Rosický, J.) Topological reflections revisited. **90e:18004**
Yetter, David N. Corrections to: “On right adjoints to exponential functors” [J. Pure Appl. Algebra **45** (1987), no. 3, 287–304; MR 88f:18002]. **90c:18001**

18A99 None of the above, but in this section

Jarzembski, Grzegorz Finitary fibrations. (French summary) **90g:18003**
Schwab, E. Beispiele von Baer *-Kategorien mit verallgemeinerten Inversen. (Romanian summary) [Examples of Baer *-categories with generalized inverses] **90i:18001**
Zarichnyĭ, M. M. A category of normal functors. (Ukrainian. Russian summary) (Not in MR)

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Diers, Yves Codisjunctors and singular epimorphisms in the category of commutative rings. **90a:14003**
Geanău, M. Polyfoncteurs. II. (Romanian summary) [Polyfunctors. II] (Not in MR)
Steiner, Richard Multiple semidirect products of associative systems. **90k:20111**
Tabor, Józef A Pexider equation on a small category. (Polish summary) **90j:39012**

18Bxx Special categories

18B10 Category of relations, additive relations

Alagić, Mara On categories of relations. **90k:18001**
Rebenciuc, M. The section of a binary nonhomogeneous relation in a category relative to a subobject. I. (Romanian summary) **90a:18002a**
— The section of a binary nonhomogeneous relation in a category relative to a subobject. II. (Romanian summary) **90a:18002b**
Schwab, Emil Über einen durch reguläre Einheiten definierten Funktor im Falle der inversen Kategorien. [On a functor, defined by regular units, in the case of inverse categories] **90b:18004**

Items with secondary classifications in 18B10

Adámek, Jiří (*with* Rosický, J.; Trnková, Věra) Are all limit-closed subcategories of locally presentable categories reflective? **90b:18002**
Rosický, J. *see* **Adámek, Jiří; et al., 90b:18002**
Trnková, Věra *see* **Adámek, Jiří; et al., 90b:18002**

18B15 Imbedding theorems, universal categories [see also 18E20]

Alderton, I. W. How many initial completions does a monotopological category have? **90i:18002**
Barr, Michael Embedding of accessible regular categories. **90g:18004**
Trnková, Věra Simultaneous representations in categories. **90f:18001**

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Adams, M. E. (*with* Koubek, V.; Sichler, J.) Isomorphism universal varieties of Heyting algebras. **90i:06015**
Alderton, I. W. Function spaces in fuzzy topology. **90i:54013**
Herrlich, Horst Hereditary topological constructs. **90c:54008**
Koubek, V. *see* **Adams, M. E.; et al., 90i:06015**
Rosolini, G. Representation theorems for p-categories. **90e:18001**
Sichler, J. *see* **Adams, M. E.; et al., 90i:06015**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Hofer, Gerhard Reachability in machines. **90j:18005**

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Bloom, Stephen L. (*with* Ésik, Z.) Equational logic of circular data type specification. **90i:68066**
Dididze, Ts. E. Hereditary radical classes of monoidal Γ-automata. (Russian) **90f:68121**
Ésik, Z. *see* **Bloom, Stephen L., 90i:68066**
Lex, Wilfried Remarks on acts and the lattice of their torsion theories. **90e:08006**
Manes, Ernie Assertional categories. **90f:68110**
Mulry, Philip S. Kan extensions in effective semantics. **90e:68067**
Rhodes, John On the Cantor-Dedekind property of the Tilson order on categories and graphs. **90b:20056**

18B25 Topoi [see also 03G30]

Bell, J. L. ★ Toposes and local set theories. **90e:18002**
Borceux, F. Examples of quantales in topos theory. **90a:18003**
Bunge, Marta An application of descent to a classification theorem for toposes. **90k:18002**
Dupont, Pascal Projectivity of sheaves on a locale and of free modules. **90k:18003**
Dzhibladze, M. A. Geometric morphisms and indexed topoi. (Russian. English summary) **90m:18005**
Español, L. The spectrum lattice of Baer rings and polynomials. **90c:18002**
Hyland, J. M. E. (*with* Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. **90k:18004**
Johnstone, Peter T. A topos-theorist looks at dilators. **90f:18002**
— (*with* Moerdijk, I.) Local maps of toposes. **90a:18004**
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Kennison, John F. What is the fundamental group? **90h:18003**
Kock, Anders (*with* Schmidt, Jørn) A coherent theory of sites. **90m:18007**
Lawvere, F. William Qualitative distinctions between some toposes of generalized graphs. **90g:18005**
Loiseau, Bruno (*with* Mawanda, Mbila-Mambu) On natural number objects, finiteness and Kripke-Platek models in toposes. **90k:18005**
MacCaull, W. A. Hilbert’s Nullstellensatz revisited. **90c:18003**
Mawanda, Mbila-Mambu *see* **Loiseau, Bruno, 90k:18005**
Moerdijk, I. The classifying topos of a continuous groupoid. I. **90a:18005**
— *see also* **Johnstone, Peter T., 90a:18004** *and* **Joyal, A., 90m:18006**
Nishimura, Hirokazu Heyting valued considerations on some fundamental existence theorems in modern analysis. **90e:18003**
Paré, R. (*with* Rosebrugh, R.; Wood, R. J.) Idempotents in bicategories. **90d:18002**
Phoa, Wesley Relative computability in the effective topos. **90h:18004**
Robinson, Edmund *see* **Hyland, J. M. E.; et al., 90k:18004**
Rosebrugh, R. *see* **Paré, R.; et al., 90d:18002**
Rosolini, G. *see* **Hyland, J. M. E.; et al., 90k:18004**
Schmidt, Jørn *see* **Kock, Anders, 90m:18007**
Wood, R. J. *see* **Paré, R.; et al., 90d:18002**

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Al-Ezeh, H. Pure ideals in commutative reduced Gel′fand rings with unity. **90h:13001**
Bhutani, Kiran R. Abelian groups in a topos of sheaves: torsion and essential extensions. **90a:18008**
Blass, Andreas Geometric invariance of existential fixed-point logic. **90g:03066**
— (*with* Scedrov, Andre) Freyd’s models for the independence of the axiom of choice. **90d:03097**
Borceux, F. (*with* Pedicchio, Maria Cristina) Prime elements in a localic topos. **90g:06021**
— (*with* Pedicchio, Maria Cristina) On primeness and maximality of filters. (French summary) **90g:06023**
Bruno, Oscar P. Three problems concerning ideals of differentiable functions. **90c:58025**
Bunge, Marta (*with* Gago Couso, Felipe) Synthetic aspects of C^∞-mappings. II. Mather’s theorem for infinitesimally represented germs. **90b:58022**
Curien, P.-L. (*with* Obtułowicz, A.) Partiality, Cartesian closedness, and toposes. **90b:18010b**
Dupont, Pascal (*with* Loiseau, Bruno) A logical glance at sheaves. **90m:03108**
Gago Couso, Felipe *see* **Bunge, Marta, 90b:58022**
Hirschowitz, André Cohérence et dualité sur le gros site de Zariski. [Coherence and duality on the big Zariski site] **90k:14012**
Hyland, J. M. E. (*with* Pitts, Andrew M.) The theory of constructions: categorical semantics and topos-theoretic models. **90h:03023**
Johnstone, Peter T. A constructive “closed subgroup theorem” for localic groups and groupoids. (French summary) **90e:22006**
Lafaye de Micheaux, N. *see* **Preller, A., 90i:03072**
Lavendhomme, R. (*with* Lucas, Thierry Eugène) Toposes and intuitionistic theories of types. **90d:03138**
Loiseau, Bruno *see* **Dupont, Pascal, 90m:03108**
Lucas, Thierry Eugène *see* **Lavendhomme, R., 90d:03138**
MacCaull, W. A. On the validity of Hilbert’s Nullstellensatz, Artin’s theorem, and related results in Grothendieck toposes. **90a:03109**
Makkai, Michael Strong conceptual completeness for first-order logic. **90b:03096**
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Obtułowicz, A. *see* **Curien, P.-L., 90b:18010b**
Pedicchio, Maria Cristina *see* **Borceux, F., 90g:06021** *and* **90g:06023**
Pitts, Andrew M. *see* **Hyland, J. M. E., 90h:03023**
Preller, A. (*with* Lafaye de Micheaux, N.) Intensional equality in categories with structure and coherence problems. **90i:03072**
Robinson, Edmund (*with* Rosolini, G.) Categories of partial maps. **90b:18010a**
Rosolini, G. *see* **Robinson, Edmund, 90b:18010a**
Scedrov, Andre *see* **Blass, Andreas, 90d:03097**
Toth, Herbert Categorial properties of f-set theory. **90m:03096**
Vickers, Steven A fixpoint construction of the p-adic domain. **90e:68070**
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18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Adámek, Jiří *see* **Trnková, Věra; et al., 90e:18004**
Coulon, Jean-Louis *see* **Coulon, Josette, 90h:18005**
Coulon, Josette (*with* Coulon, Jean-Louis) The spectrum of a separated presheaf and the relation between totally fuzzy subsets and fuzzy subsets; application to fuzzy topology. **90h:18005**
Rosický, J. *see* **Trnková, Věra; et al., 90e:18004**
Savchenko, A. G. A criterion for isomorphism of the finite-power functor and the power functor. (Russian) **90m:18008**
Trnková, Věra (*with* Adámek, Jiří; Rosický, J.) Topological reflections revisited. **90e:18004**

Items with secondary classifications in 18B30

Alderton, I. W. Power-objects in monotopological categories. **90c:18006**
Banaschewski, B. (*with* Pultr, A.) Cauchy points of metric locales. **90h:18006**
Benkő, I. Exactness of the adjunction functor in the category of locally convex spaces. (*see* **90j:00021**)
Brown, Ronald (*with* Higgins, P. J.) Crossed complexes and chain complexes with operators. **90j:55030**
Crstici, Borislav (*with* Dăianu, Dan) The locally convex space category with approximation. **90d:46101**
Dăianu, Dan *see* **Crstici, Borislav, 90d:46101**
Herrlich, Horst Hereditary topological constructs. **90c:54008**
— Sequential structures induced by merotopies. **90d:54058**
Higgins, P. J. *see* **Brown, Ronald, 90j:55030**
Hušek, M. *see* **Trnková, Věra, 90d:54074**
Hyland, J. M. E. (*with* Robinson, Edmund; Rosolini, G.) The discrete objects in the effective topos. **90k:18004**
Kříž, I. (*with* Pultr, A.) Peculiar behavior of connected locales. (French summary) **90e:54043**
Lord, Harriet Lazowick Functionally Hausdorff spaces. (French summary) **90m:54015**
Lowen, Robert (*with* Srivastava, Arun Kumar^2) FTS$_0$: the epireflective hull of the Sierpiński object in FTS. **90d:54015**
— (*with* Wuyts, P.; Lowen-Colebunders, Eva) On the reflectiveness and coreflectiveness of subcategories of FTS. **90i:54015**
— Approach spaces: a common supercategory of TOP and MET. **90i:54025**
— *see also* **Wuyts, P.; et al., 90a:54013**
Lowen-Colebunders, Eva *see* **Wuyts, P.; et al., 90a:54013** *and* **Lowen, Robert; et al., 90i:54015**
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Paseka, Jan (*with* Šmarda, Bohumil) On some notions related to compactness for locales. **90d:54057**
Pultr, A. *see* **Kříž, I., 90e:54043** *and* **Banaschewski, B., 90h:18006**
Robinson, Edmund *see* **Hyland, J. M. E.; et al., 90k:18004**
Rosolini, G. *see* **Hyland, J. M. E.; et al., 90k:18004**
Shapiro, L. B. A category characteristic of a hyperspace. **90a:54025**
Šmarda, Bohumil *see* **Paseka, Jan, 90d:54057**
Srivastava, Arun Kumar^2 *see* **Lowen, Robert, 90d:54015**
Stramaccia, Luciano Some remarks on preservation of topological products. **90h:54012**
Trnková, Věra (*with* Hušek, M.) Nonconstant continuous maps of modifications of topological spaces. **90d:54074**
Weiss, Wolfgang Uniform spaces can be represented by completely distributive lattices. **90d:54059**
Woods, R. Grant Covering properties and coreflective subcategories. **90m:54016**
Wuyts, P. (*with* Lowen, Robert; Lowen-Colebunders, Eva) Reflectors and coreflectors in the category of fuzzy topological spaces. **90a:54013**
— *see also* **Lowen, Robert; et al., 90i:54015**

18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Banaschewski, B. (*with* Pultr, A.) Cauchy points of metric locales. **90h:18006**
Irmatov, A. A. (*with* Trofimov, V. A.) Homology of complete Brouwer lattices. **90j:18006**
Pultr, A. Diameters in locales: how bad they can be. **90b:18005**
— *see also* **Banaschewski, B., 90h:18006**
Trofimov, V. A. *see* **Irmatov, A. A., 90j:18006**

Items with secondary classifications in 18B35

Niefield, Susan B. *see* **Rosenthal, Kimmo I., 90g:06017**
Rosenthal, Kimmo I. (*with* Niefield, Susan B.) Connections between ideal theory and the theory of locales. **90g:06017**
Thomason, S. K. Free construction of time from events. **90h:03010**

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

Brown, Ronald Symmetry, groupoids and higher-dimensional analogues. **90g:18006**
Nguyễn Tiến Quang Coherence in Ann-categories. (Vietnamese. French summary) **90b:18006**

Items with secondary classifications in 18B40

Fay, Temple H. (*with* Walls, Gary L.) Compact nilpotent groups. **90j:22001**
Kumjian, Alex On equivariant sheaf cohomology and elementary C^*-bundles. **90h:46102**
Straubing, Howard Semigroups and languages of dot-depth two. **90j:20139**
Tilson, Bret Categories as algebra: an essential ingredient in the theory of monoids. **90e:20061**
Walls, Gary L. *see* **Fay, Temple H., 90j:22001**

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Dekov, Deko V. Existence de structures quotient. [Existence of quotient structures] **90c:18004**
Grandis, Marco Distributive homological algebra: universal models for the exact system and the exact couple. **90f:18003**
Hur, Kul A note on the category Set(H). **90a:18006**
Hyland, J. M. E. A small complete category. **90a:18007**
Kock, Anders A Godement theorem for locales. **90e:18005**

Items with secondary classifications in 18B99

Burstall, Rod M. *see* **Rydeheard, David E., 90k:68108**
Butler, M. C. R. Some almost split sequences in torsionfree abelian group theory. **90f:20079**
Cherenack, Paul Closed subspaces of the sequence space. **90j:14005**
Cockett, J. R. B. On the decidability of objects in a locos. **90f:03101**
Dăianu, Dan Concrete *a*-categories. **90c:18007**
Diers, Yves Locally Hilbert categories. **90e:18009**
(Gray, John W.) *see* **Rydeheard, David E., 90k:68108**
Hébert, Michel Characterizations of axiomatic categories of models canonically isomorphic to (quasi-)varieties. **90d:03064**
Hrbáček, Karel Convex powerdomains. II. **90g:68084**
Johnstone, Peter T. (*with* Sun, Shu Hao) Weak products and Hausdorff locales. **90a:54026**
Kusraev, A. G. ★ Элементы булевозначного анализа. (Russian) [Elements of Boolean-valued analysis] **90k:03038**
Nassopoulos, George F. Duality and functional representations of certain complete algebras. (Greek summary) **90b:46133**
Pedrosa, Renato H. de L. (*with* Sette, Antonio-M. A.) A representation theorem for languages with generalized quantifiers through back-and-forth methods. **90e:03044**
Pultr, A. Categories of diametric frames. **90a:54014**
Román, Leopoldo Ultradiophantine categories. **90d:03139**
Rydeheard, David E. (*with* Burstall, Rod M.) ★ Computational category theory. **90k:68108**
Semadeni, Zbigniew On the category of compact convex sets and related categories. **90b:46134**
Sette, Antonio-M. A. *see* **Pedrosa, Renato H. de L., 90e:03044**
Sun, Shu Hao *see* **Johnstone, Peter T., 90a:54026**
Takahashi, Michihiro Structures of semimodules. **90f:20102**
Thomason, S. K. Free construction of time from events. **90h:03010**
Vickers, Steven ★ Topology via logic. **90j:03110**
Wiweger, Antoni Knowledge representation systems, logical kits, and contexts. (Russian summary) **90i:68083**

18Cxx Categories and algebraic theories

18C05 Equational categories [see also 03–XX, 08C05]

Items with secondary classifications in 18C05

Bloom, Stephen L. (*with* Ésik, Z.) Varieties of iteration theories. **90h:68074**
Ésik, Z. *see* **Bloom, Stephen L., 90h:68074**

18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03–XX]

Barr, Michael Models of Horn theories. **90k:18006**
Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] **90m:18009**
Jarzembski, Grzegorz Lattices of free extensions in categories of partially algebraic structures. **90e:18006**
Lair, C. Trames et sémantiques catégoriques des systèmes de trames. [Plats and categorical semantics of systems of plats] **90e:18007**
— Diagrammes structures de modèles. [Structure diagrams of models] **90e:18008**

Items with secondary classifications in 18C10

Badouel, Eric Algebraically closed theories. (*see* **90m:68009**)
Baranga, Andrei About recursive domain equations. **90e:68064**
Barr, Michael Embedding of accessible regular categories. **90g:18004**
Coppey, L. (*with* Lair, C.) Leçons de théorie des esquisses. II. [Lectures on the theory of sketches. II] **90b:18001**
Ghilardi, S. (*with* Meloni, G. C.) Modal and tense predicate logic: models in presheaves and categorical conceptualization. **90b:03019**
Jay, C. Barry Languages for monoidal categories. **90f:18006**
Lair, C. *see* **Coppey, L., 90b:18001**
Meloni, G. C. *see* **Ghilardi, S., 90b:03019**
Posegga, Michael ★ Algebraic model-theories: a contribution to the generalization of the notion "logical system". **90h:68077**
Rosický, J. Elementary categories. **90i:03043**

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Adámek, Jiří (*with* Herrlich, Horst; Tholen, Walter) Monadic decompositions. **90i:18003**
Fox, Thomas F. Algebraic deformations and bicohomology. **90h:18007**
Gähler, Werner Monads and convergence. **90b:18007**
Herrlich, Horst *see* **Adámek, Jiří; et al., 90i:18003**
Tholen, Walter *see* **Adámek, Jiří; et al., 90i:18003**

Items with secondary classifications in 18C15

Adámek, Jiří (*with* Herrlich, Horst; Rosický, J.) Essentially equational categories. (French summary) **90b:18008**
Fernández Vilaboa, J. M. (*with* López López, M. P.) Cleft comodule triples in a symmetric closed category. **90e:16010**
Herrlich, Horst *see* **Adámek, Jiří; et al., 90b:18008**
López López, M. P. *see* **Fernández Vilaboa, J. M., 90e:16010**
Novikov, B. V. Partial cohomology of semigroups and its applications. **90a:20135**
Rosický, J. *see* **Adámek, Jiří; et al., 90b:18008**

18C20 Algebras and Kleisli categories associated with monads

Items with secondary classifications in 18C20

Adámek, Jiří (*with* Herrlich, Horst; Tholen, Walter) Monadic decompositions. **90i:18003**

Cordier, J.-M. (*with* Porter, Timothy) ★ Shape theory. **90f:54030**
Herrlich, Horst *see* **Adámek, Jiří; et al., 90i:18003**
Porter, Timothy *see* **Cordier, J.-M., 90f:54030**
Tholen, Walter *see* **Adámek, Jiří; et al., 90i:18003**

18C99 None of the above, but in this section

Adámek, Jiří (*with* Herrlich, Horst; Rosický, J.) Essentially equational categories. (French summary) **90b:18008**
Herrlich, Horst *see* **Adámek, Jiří; et al., 90b:18008**
Lair, C. Lax-co-limites structurées. [Structured lax colimits] **90h:18008**
Rosický, J. *see* **Adámek, Jiří; et al., 90b:18008**

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Bouhoyi, Hilaire Duality of endomorphisms of a universal algebra. (Russian) **90d:08010**
Guitart, René On the geometry of computations. II. **90g:18001**

18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

Geanău, M. Polyfoncteurs. II. (Romanian summary) [Polyfunctors. II] (Not in MR)
Golasiński, Marek ω-Cat Yoneda lemma. **90m:18010**
Kelly, G. M. Elementary observations on 2-categorical limits. **90f:18004**
MacDonald, John L. (*with* Stone, Arthur L.) Soft adjunction between 2-categories. **90i:18004**
Power, A. J. Coherence for bicategories with finite bilimits. I. **90f:18005**
— A general coherence result. **90k:18007**
Stone, Arthur L. *see* **MacDonald, John L., 90i:18004**
Topencharov, Vladimir V. Structures algébriques n-aires généralisant les catégories. [n-ary algebraic structures generalizing categories] **90c:18005**

Items with secondary classifications in 18D05

Bourn, Dominique The tower of n-groupoids and the long cohomology sequence. **90k:18017**
Duskin, John W. The Azumaya complex of a commutative ring. **90c:13003**
Paré, R. (*with* Rosebrugh, R.; Wood, R. J.) Idempotents in bicategories. **90d:18002**
Rosebrugh, R. *see* **Paré, R.; et al., 90d:18002**
Wood, R. J. *see* **Paré, R.; et al., 90d:18002**

18D10 Monoidal categories (= multiplicative categories) [see also 19D23]

Jay, C. Barry Languages for monoidal categories. **90f:18006**
Johnson, S. R. Monoidal Morita equivalence. **90g:18007**

Items with secondary classifications in 18D10

Elmendorf, A. D. The Grassmannian geometry of spectra. **90c:55007**
Woronowicz, S. L. Tannaka-Kreĭn duality for compact matrix pseudogroups. Twisted SU(N) groups. **90e:22033**

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

Ageron, Pierre Les catégories localement (multi)présentables comme domaines de Scott. [Locally (multi)presentable categories as Scott domains] **90k:18008**
Alderton, I. W. Power-objects in monotopological categories. **90c:18006**
Curien, P.-L. (*with* Obtułowicz, A.) Partiality, Cartesian closedness, and toposes. **90b:18010b**
Diers, Yves Locally Hilbert categories. **90e:18009**
Higgs, D. A. (*with* Rowe, K. A.) Nuclearity in the category of complete semilattices. **90b:18009**
Koslowski, Jürgen Topological hulls revisited. **90i:18005**
Lambek, J. Multicategories revisited. **90e:18010**
Obtułowicz, A. *see* **Curien, P.-L., 90b:18010b**
Robinson, Edmund (*with* Rosolini, G.) Categories of partial maps. **90b:18010a**
Román, Leopoldo On partial Cartesian closed categories. **90f:18007**
Rosolini, G. *see* **Robinson, Edmund, 90b:18010a**
Rowe, K. A. *see* **Higgs, D. A., 90b:18009**
Šlapal, Josef Cartesian closedness in categories of relational systems. **90h:18009**
Vidal Martín, Concepción ★ El grupo de Picard de una categoría cerrada. (Una alternativa a la teoría de invariantes relativos). (Spanish) [The Picard group of a closed category. (An alternative to the theory of relative invariants)] **90h:18010**

Items with secondary classifications in 18D15

Baranga, Andrei About recursive domain equations. **90e:68064**
Brown, Ronald (*with* Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. **90e:18015**
Gilbert, N. D. *see* **Brown, Ronald, 90e:18015**
Golasiński, Marek ω-Cat Yoneda lemma. **90m:18010**
Gray, John W. The category of sketches as a model for algebraic semantics. **90g:68083**
Jung, A. ★ Cartesian closed categories of domains. **90i:06009**
Mitchell, John C. (*with* Scott, Philip J.) Typed lambda models and Cartesian closed categories (preliminary version). **90f:03031**
Ohtsuka, Hiroshi A categorical model of λ-calculus based on de Bruijn's name-free expressions. **90m:03031**
Scott, Philip J. *see* **Mitchell, John C., 90f:03031**
Walters, R. F. C. Data types in distributive categories. **90j:68030**

18D20 Enriched categories (over closed or monoidal categories)

Betti, R. (*with* Walters, R. F. C.) The calculus of ends over a base topos. **90f:18008**
Dăianu, Dan Concrete a-categories. **90c:18007**
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Malm, Kaj Prespectra and towers over model categories. **90c:18008**
Walters, R. F. C. *see* **Betti, R., 90f:18008**

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Golasiński, Marek ω-Cat Yoneda lemma. **90m:18010**
Power, A. J. A general coherence result. **90k:18007**
Street, Ross *see* **Day, Brian J., 90h:18012**

18D30 Fibered categories

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Rosolini, G. *see* **Hyland, J. M. E.; et al., 90k:18004**
Šlapal, Josef Cartesian closedness in categories of relational systems. **90h:18009**

18D35 Structured objects in a category (group objects, etc.)

Isbell, J. (*with* Kříž, I.; Pultr, A.; Rosický, J.) Remarks on localic groups. **90f:18009**
Kříž, I. *see* **Isbell, J.; et al., 90f:18009**
Pultr, A. *see* **Isbell, J.; et al., 90f:18009**
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Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. **90k:55018**
Guitart, René On the geometry of computations. II. **90g:18001**

18D99 None of the above, but in this section

Lattermann, Stefan ★ Tannakakategorien. (German) [Tannakian categories] **90k:18009**
Nguyễn Tiến Quang Introduction to Ann-categories. (Vietnamese. Russian summary) **90b:18011**

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Alagić, Mara On categories of relations. **90k:18001**
Brown, Ronald (*with* Golasiński, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) **90f:18012**
Dwyer, W. G. (*with* Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. **90g:18011**
Furchin, B. Yu. Crossed products of groups on categories and Auslander-Reiten quivers. **90g:16027**
Golasiński, Marek *see* **Brown, Ronald, 90f:18012**
Hur, Kul A note on the category Set(H). **90a:18006**
Kan, D. M. *see* **Dwyer, W. G., 90g:18011**
Kock, Anders Fibre bundles in general categories. **90b:18012**
Lair, C. Lax-co-limites structurées. [Structured lax colimits] **90h:18008**
Montagna, Franco "Pathologies" in two syntactic categories of partial maps. **90i:03046**
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18Exx Abelian categories

18E05 Preadditive, additive categories

Liu, Shao Xue The Jacobson structure theorems for additive categories. (Chinese) **90g:18008**
— Wedderburn-Artin theorem for additive categories. **90d:18003**

Items with secondary classifications in 18E05

Zhu, Sheng Lin A note on Fuller's theorem. **90j:16055**

18E10 Exact categories, abelian categories

Dragomir, A. Exact categories with Serre classes. (Romanian summary) **90k:18010**
Fay, Temple H. (*with* Schoeman, Marius J.) Quasi-splitting in abelian categories. **90k:18011**
— (*with* Hardie, K. A.; Hilton, Peter John) The two-square lemma. **90h:18011**
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Hilton, Peter John *see* **Fay, Temple H.; et al., 90h:18011**
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Parshall, B. *see* **Cline, E.; et al., 90g:17014**
Scott, Leonard L. *see* **Cline, E.; et al., 90g:17014**

18E15 Grothendieck categories

Items with secondary classifications in 18E15

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18E25 Derived functors and satellites

Pirashvili, T. I. Higher additivizations. (Russian. English summary) **90k:18012**

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Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. **90k:18021**
Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) **90c:55009**

18E30 Derived categories, triangulated categories

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Parshall, B. *see* **Cline, E.; et al., 90d:18004** *and* **90d:18005**
Scott, Leonard L. *see* **Cline, E.; et al., 90d:18004** *and* **90d:18005**

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Manin, Yu. I. *see* **Gel′fand, S. I., 90k:18016**
Miyachi, Jun-ichi Localization of derived categories. (*see* **90k:16001**)
Parthasarathy, Rajagopalan t-structures in the derived category of representations of quivers. **90j:16049**
Páter, Z. Topological algebras of functions. **90m:46091**
Scott, Leonard L. Derived categories and algebraic groups. **90f:20060**

18E35 Localization of categories

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Miyachi, Jun-ichi Localization of derived categories. (*see* **90k:16001**)
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18E40 Torsion theories, radicals [see also 13D30, 16A63]

Items with secondary classifications in 18E40

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Leborgne, Daniel Quelques remarques sur la dualité de Pontryagin. (English summary) [Some remarks on Pontryagin duality] **90c:13020**
Osofsky, Barbara L. Double infinite chain conditions. **90g:16020**
Rodríguez-Machin, Sergio Homotopy in additive categories. (Spanish. English summary) **90f:55029**

18Fxx Categories and geometry

18F10 Grothendieck topologies [see also 14F20]

Močkoř, Jiří Sheaves and approximation theorems. **90k:18013**

18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

Gago Couso, Felipe ★ Internal weak opens, stability and Morse theory for synthetic germs. (Not in MR)
Kock, Anders Generalized fibre bundles. **90c:18009**
— Fibre bundles in general categories. **90b:18012**

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Bruno, Oscar P. Three problems concerning ideals of differentiable functions. **90c:58025**
Bunge, Marta (*with* Gago Couso, Felipe) Synthetic aspects of C^∞-mappings. II. Mather's theorem for infinitesimally represented germs. **90b:58022**
Gago Couso, Felipe Morse germs in S.D.G. **90a:58002**
— *see also* **Bunge, Marta, 90b:58022**
Mikulski, W. M. There exists a prolongation functor of infinite order. (Russian and Czech summaries) **90c:58011**
Minguez, M. Carmen Some combinatorial calculus on Lie derivative. (French summary) **90b:58003**

18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

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Berni-Canani, U. (*with* Borceux, F.; Succi Cruciani, R.; Van den Bossche, G.) Étale maps quantales. **90m:06017**
Blass, Andreas (*with* Scedrov, Andre) Freyd's models for the independence of the axiom choice. **90d:03097**
Borceux, F. *see* **Berni-Canani, U.; et al., 90m:06017**
Moerdijk, I. The classifying topos of a continuous groupoid. I. **90a:18005**
Pillay, A. Sheaves of continuous definable functions. **90j:03071**
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Skurikhin, E. E. On the normal cohomological dimension of open subsets of completely regular spaces. **90d:55009**
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18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16A54, 19–XX, 57R65, 57R67]

(Anderson, Donald W.) *see* **Atiyah, Michael, 90m:18011**
Atiyah, Michael ★ K-theory. **90m:18011**
Browkin, Jerzy A theorem of Sturm and K_1 for rings of real continuous functions. **90a:18009**
Geller, S. (*with* Weibel, Charles A.) $K(A,B,I)$. II. **90h:18013**
Grayson, Daniel R. On the K-theory of fields. **90c:18010**
Gruntovich, M. M. A localization sequence in K-theory. (Russian) (*see* **90h:20005**)
Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) **90k:18014**
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Moody, John Atwell Brauer induction for G_0 of certain infinite groups. **90b:18014**
Plotkin, E. B. Surjective stabilization of a K-functor for Chevalley groups of normal and twisted types. **90c:18011**
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Sherman, Clayton On the homotopy fiber of the map $BQ\mathscr{A}^{\oplus} \to BQ\mathscr{A}$ (after M. Auslander) **90e:18011**
Staffeldt, Ross E. On fundamental theorems of algebraic K-theory. **90g:18009**
Uridiya, M. B. Quillen's Q-construction for symmetric monoidal categories. (Russian. English summary) **90m:18012**
Weibel, Charles A. Homotopy algebraic K-theory. **90d:18006**
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Arlettaz, Dominique Torsion classes in the cohomology of congruence subgroups. **90j:2009**
Elman, Richard *see* **Arason, Jón Kr.; et al., 90a:11043**
Freitas, Raphaël K-théorie réelle des variétés de Stiefel quaternioniques. (English summary [KO-theory of quaternionic Stiefel manifolds] **90j:55009**
Hodges, Timothy J. Equivariant K-theory for Noetherian rings. **90h:16044**
Ischebeck, Friedrich Subintegral ring extensions and some K-theoretical functors. **90f:13011**
Jacob, Bill *see* **Arason, Jón Kr.; et al., 90a:11043**
Jardine, J. F. The homotopical foundations of algebraic K-theory. **90j:55029**
Kastler, Daniel Cyclic cocycles from graded KMS functionals. **90e:46068**
— Entire cyclic cohomology of $\mathbf{Z}/2$-graded Banach algebras. **90e:46067**
Kholodov, A. N. The umbral calculus on many-valued formal groups, and Adams projectors in K-theory. **90e:55010**
Komatsu, Keiichi K-groups and λ-invariants of algebraic number fields. **90b:11126**
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Lück, Wolfgang *see* **Laitinen, Erkki, 90j:55005**
Morimoto, Masaharu Bak groups and equivariant surgery. **90d:57037**
Natsume, Toshikazu (*with* Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. **90k:13010**
Panin, I. A. Stabilization for orthogonal and symplectic algebraic K-theories. (Russian) **90g:20067**
Prieto, Carlos The K-theory of diagrams. (Spanish) **90d:55007**
Rakviashvili, G. G. On products in the algebraic K-theory of crossed enveloping superalgebras. (Russian. English summary) **90m:17024**
Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. **90c:17014**
Schack, Samuel D. *see* **Natsume, Toshikazu, 90k:13010**
Sherman, Clayton K-theory of discrete valuation rings. **90m:13015**
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Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. **90e:57041**
Vaserstein, L. N. Normal subgroups of classical groups over rings and gauge groups. **90e:20041**
Wagoner, J. B. Markov partitions and K_2. **90d:28022**
(Wall, C. T. C.) *see* **Varadarajan, K., 90e:57041**
Weinberger, Shmuel G-signatures and cyclotomic units. **90g:57029**
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18F30 Grothendieck groups [see also 13D15, 16A54, 19Axx]

Dress, Andreas W. M. (*with* Siebeneicher, Christian) The Burnside ring of the infinite cyclic group and its relations to the necklace algebra, λ-rings, and the universal ring of Witt vectors. **90k:18015**
Siebeneicher, Christian *see* **Dress, Andreas W. M., 90k:18015**

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18F99 None of the above, but in this section

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Baldassarri, F. Comparison theorems in algebraic geometry. (Italian. English summary) **90c:14011**
Nel, Louis Daniel[1] Categorical differential calculus for infinite-dimensional spaces. (French summary) **90k:58016**
Tulczyjew, W. M. (*with* Urbański, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) **90g:55015**
Urbański, P. *see* **Tulczyjew, W. M.; et al., 90g:55015**
Zakrzewski, Stanisław *see* **Tulczyjew, W. M.; et al., 90g:55015**

18Gxx Homological algebra [see also 55Uxx]

Gel'fand, S. I. (*with* Manin, Yu. I.) ★ Методы гомологической алгебры. Том 1. (Russian) [Methods in homological algebra. Vol. 1] **90k:18016**
Manin, Yu. I. *see* **Gel'fand, S. I., 90k:18016**

18G05 Projectives and injectives [see also 13C10, 13C11, 16A50, 16A52]

Items with secondary classifications in 18G05

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Hiremath, V. A. Copure-injective modules. **90a:16022**
Ogoma, Tetsushi A note on the syzygy problem. **90g:13023**

18G10 Resolutions; derived functors [see also 18E25]

Benson, David John Cyclic homology and path algebra resolutions. **90f:18010**
Dzhibladze, M. A. (*with* Pirashvili, T. I.) Cohomology of algebraic theories. (Russian. English and Georgian summaries) **90m:18013**
Pirashvili, T. I. *see* **Dzhibladze, M. A., 90m:18013**

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Avramov, Luchezar L. (*with* Gasharov, Vesselin N.; Peeva, Irena V.) A periodic module of infinite virtual projective dimension. **90m:13016**
Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**
Gasharov, Vesselin N. *see* **Avramov, Luchezar L.; et al., 90m:13016**
Gerstenhaber, Murray (*with* Schack, Samuel D.) Algebraic cohomology and deformation theory. **90c:16016**
— (*with* Schack, Samuel D.) Triangular algebras. **90c:16017**
Khmeleva, L. E. Modules over Dedekind rings. (Russian) **90m:13017**
Ogoma, Tetsushi A note on the syzygy problem. **90g:13023**
Peeva, Irena V. *see* **Avramov, Luchezar L.; et al., 90m:13016**
Pirashvili, T. I. Higher additivizations. (Russian. English summary) **90k:18012**
Romeo, Grazia On the complex of approximation of a module of finite projective dimension. (Italian. English summary) **90d:13013**
Schack, Samuel D. *see* **Gerstenhaber, Murray, 90c:16016** *and* **90c:16017**
Stasheff, James D. Constrained Poisson algebras and strong homotopy representations. **90a:58057**

18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Bourn, Dominique The tower of n-groupoids and the long cohomology sequence. **90k:18017**
Bruner, Robert R. Calculation of large Ext modules. **90g:18010**
Mac Lane, Saunders Decker's sharper Künneth formula. **90f:18011**

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Fuchs, László[1] Some applications of abelian group theory to modules. **90e:13009**
Guzmán, Fernando Cointegrations, relative cohomology for comodules, and coseparable corings. **90j:16064**
Miyazaki, Mitsuhiro Characterizations of Buchsbaum complexes. **90b:13025**
Natsume, Toshikazu (*with* Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. **90k:13010**
Schack, Samuel D. *see* **Natsume, Toshikazu, 90k:13010**

18G20 Homological dimension [see also 13Dxx, 16A60, 16A62]

Items with secondary classifications in 18G20

Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. **90e:20035**

18G25 Relative homological algebra, projective classes

Items with secondary classifications in 18G25

Generalov, A. I. The Kuz'minov formula. **90a:20114**
Guzmán, Fernando Cointegrations, relative cohomology for comodules, and coseparable corings. **90j:16064**
Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) **90k:18014**
de Robert, Etienne Absolutely split exact sequences. **90h:16046**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Aznar García, Enrique R. *see* **Lirola Terrez, Antonio; et al., 90e:18012**
Bullejos, M. *see* **Lirola Terrez, Antonio; et al., 90e:18012**
Cortiñas, Guillermo (*with* Guccione, Jorge; Villamayor, Orlando E.) Cyclic homology of $K[Z/p\cdot Z]$. **90i:18006**
Dwyer, W. G. (*with* Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. **90g:18011**
— (*with* Kan, D. M.; Smith, Jeffrey Henderson) Homotopy commutative diagrams and their realizations. **90d:18007**
Goerss, Paul G. A Hilton-Milnor theorem for categories of simplicial algebras. **90k:18018**
Guccione, Jorge *see* **Cortiñas, Guillermo; et al., 90i:18006**
Kan, D. M. *see* **Dwyer, W. G.; et al., 90d:18007** *and* **90g:18011**
Kassel, Christian Quand l'homologie cyclique périodique n'est pas la limite projective de l'homologie cyclique. (English summary) [When periodic cyclic homology is not the projective limit of cyclic homology] **90i:18007**
Lirola Terrez, Antonio (*with* Aznar García, Enrique R.; Bullejos, M.) The cohomology groups of an epimorphism. **90e:18012**
Nan Tie, Gary A Dold-Kan theorem for crossed complexes. **90e:18013**
— Iterated $\overline{W}$ and T-groupoids. **90e:18014**
Porter, Timothy Crossed modules, crossed n-cubes and simplicial groups. **90j:18009**
Smith, Jeffrey Henderson *see* **Dwyer, W. G.; et al., 90d:18007**
Villamayor, Orlando E. *see* **Cortiñas, Guillermo; et al., 90i:18006**

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Adem, Alejandro (*with* Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. **90k:55012**
Benson, David John Cyclic homology and path algebra resolutions. **90f:18010**
Cohen, Ralph L. *see* **Adem, Alejandro; et al., 90k:55012**
Duskin, John W. The Azumaya complex of a commutative ring. **90c:13003**
Dwyer, W. G. (*with* Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. **90i:55034**
— *see also* **Adem, Alejandro; et al., 90k:55012**
Irmatov, A. A. (*with* Trofimov, V. A.) Homology of complete Brouwer lattices. **90j:18006**
Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) **90c:55009**
Miller, Haynes *see* **Dwyer, W. G.; et al., 90i:55034**
Neisendorfer, Joseph *see* **Dwyer, W. G.; et al., 90i:55034**
Trofimov, V. A. *see* **Irmatov, A. A., 90j:18006**
Yun, Dall Sun The cup and cap product of simplicial modules. **90e:55035**

18G35 Chain complexes [see also 18E30, 55U15]

Brylinski, Jean-Luc Central localization in Hochschild homology. **90b:18015**
Pachkoriya, A. M. On cohomology monoids. (Russian. English summary) **90k:18019**

Items with secondary classifications in 18G35

Brown, Ronald (*with* Higgins, P. J.) Crossed complexes and chain complexes with operators. **90j:55030**
Getzler, Ezra (*with* Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. **90g:58124**
Higgins, P. J. *see* **Brown, Ronald, 90j:55030**
Jones, John D. S. *see* **Getzler, Ezra; et al., 90g:58124**
Petrack, Scott B. *see* **Getzler, Ezra; et al., 90g:58124**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Enochs, Edgar E. A modification of Grothendieck's spectral sequence. **90d:18008**
Huebschmann, Johannes Change of rings and characteristic classes. **90h:18015**
Jardine, J. F. The Leray spectral sequence. **90k:18020**
Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. **90k:18021**
Prasolov, A. V. A spectral sequence for strong homology. (Serbo-Croatian summary) **90m:18014**

Items with secondary classifications in 18G40

Kleiman, Steven The development of intersection homology theory. **90m:01045**

18G50 Nonabelian homological algebra [see also 19D99]

Bourn, Dominique Pseudofunctors and nonabelian weak equivalences. **90b:18016**
Brown, Ronald (*with* Golasiński, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) **90f:18012**
Golasiński, Marek *see* **Brown, Ronald, 90f:18012**
R-Grandjeán L-Valcárcel, A. (*with* Vale Gonsalves, María J.) Linear methods in the Andre-Quillen cohomology. **90h:18016**
Takhtadzhyan, L. A. The noncommutative homology of quantum tori. **90m:18015**
Vale Gonsalves, María J. *see* **R-Grandjeán L-Valcárcel, A., 90h:18016**

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Aznar García, Enrique R. *see* **Lirola Terrez, Antonio; et al., 90e:18012**

Buium, Alexandru Corps de modules et cohomologie non abélienne. (English summary) [Fields of moduli and nonabelian cohomology] **90b:14010**
— Birational moduli and nonabelian cohomology. **90a:14010**
Bullejos, M. *see* **Lirola Terrez, Antonio; et al., 90e:18012**
Lirola Terrez, Antonio (*with* Aznar García, Enrique R.; Bullejos, M.) The cohomology groups of an epimorphism. **90e:18012**
Stora, Raymond Differential algebras in field theory and their anomalies: two examples. **90c:58006**

18G55 Nonabelian homotopical algebra

Brown, Ronald (*with* Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. **90e:18015**
Ellis, G. J. Higher-dimensional crossed modules of algebras. **90a:18010**
Gilbert, N. D. *see* **Brown, Ronald, 90e:18015**

Items with secondary classifications in 18G55

Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] **90m:18009**
Rodríguez-Machín, Sergio Homotopy in additive categories. (Spanish. English summary) **90f:55029**

18G99 None of the above, but in this section

Cibils, Claude Cohomology of incidence algebras and simplicial complexes. **90d:18009**

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Ayala, R. (*with* Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] **90j:55010**
Bousfield, A. K. (*with* Peterson, Chariya P.; Smith, Larry) The rational homology of function spaces. **90d:55020**
Domínguez Murillo, Eladio *see* **Ayala, R.; et al., 90j:55010**
Douglas, R. G. Elliptic invariants and operator algebras: toroidal examples. **90f:58169**
Dwyer, W. G. (*with* Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. **90g:18011**
Ellis, G. J. Crossed modules. **90d:20001**
Fox, Thomas F. Algebraic deformations and bicohomology. **90h:18007**
Guillén, F. Hyperrésolutions cubiques. [Cubic hyperresolutions] (*see* **90a:14024**)
Hitta, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**
Kan, D. M. *see* **Dwyer, W. G., 90g:18011**
Menal, Pere (*with* Vaserstein, L. N.) On subgroups of GL_2 over noncommutative local rings which are normalized by elementary matrices. **90k:20085**
Miminoshvili, M. R. An Inasaridze type homology of commutative rings. (Russian. English and Georgian summaries) **90b:13019**
Pachkoriya, A. M. On cohomology monoids. (Russian. English summary) **90k:18019**
Peterson, Chariya P. *see* **Bousfield, A. K.; et al., 90d:55020**
Quintero, A. *see* **Ayala, R.; et al., 90j:55010**
Smith, Larry *see* **Bousfield, A. K.; et al., 90d:55020**
Vaserstein, L. N. *see* **Menal, Pere, 90k:20085**

19–XX *K*-theory (to be used only for secondary classifications, until further notice) [see also 16A54, 18F25]

19–01 Elementary exposition; textbooks

Items with secondary classifications in 19–01

(Anderson, Donald W.) *see* **Atiyah, Michael, 90m:18011**
Atiyah, Michael ★ *K*-theory. **90m:18011**

19–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 19–02

(Dieudonné, Jean) *see* **Hahn, Alexander J., 90i:20002**
Hahn, Alexander J. (*with* O'Meara, O. Timothy) ★ The classical groups and *K*-theory. **90i:20002**
O'Meara, O. Timothy *see* **Hahn, Alexander J., 90i:20002**

19–06 Proceedings, conferences, etc.

Items with secondary classifications in 19–06

(Jardine, J. F.) *see* **Algebraic *K*-theory: connections with geometry and topology, 90m:18001**
(Kuku, A. O.) *see* **Proceedings: Research Symposium on *K*-Theory and its Applications, 90a:18001**
(Snaith, Victor) *see* **Algebraic *K*-theory: connections with geometry and topology, 90m:18001**
(Weibel, Charles A.) *see* **Proceedings: Research Symposium on *K*-Theory and its Applications, 90a:18001**

Items listed otherwise than by author

Algebraic *K*-theory: connections with geometry and topology ★ Algebraic *K*-theory: connections with geometry and topology. **90m:18001**
Ibadan ★ Proceedings of Research Symposium on *K*-Theory and its Applications. **90a:18001**
Lake Louise, AB ★ Algebraic *K*-theory: connections with geometry and topology. **90m:18001**
NATO Advanced Study Institute:
  Algebraic *K*-Theory: Connections with Geometry and Topology ★ Algebraic *K*-theory: connections with geometry and topology. **90m:18001**
Proceedings:
  Research Symposium on *K*-Theory and its Applications ★ Proceedings of Research Symposium on *K*-Theory and its Applications. **90a:18001**
Symposium:
  ***K*-Theory and its Applications** ★ Proceedings of Research Symposium on *K*-Theory and its Applications. **90a:18001**

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

Items with secondary classifications in 19A13

Odenthal, Charles J. Presentations over HNP rings with enough invertible ideals and torsionfree cancellation over neoclassical orders. **90m:16008**
Vaserstein, L. N. Normal subgroups of symplectic groups over rings. **90f:20064**

19A15 Efficient generation

Items with secondary classifications in 19A15

Mennicke, Jens L. On Fibonacci groups and some other groups. (*see* **90h:20004**)

19A22 Frobenius modules, induction theory

Items with secondary classifications in 19A22

Liulevicius, Arunas A reciprocity law for symmetric products of *G*-sets. **90d:20005**
Moody, John Atwell Brauer induction for G_0 of certain infinite groups. **90b:18014**
Ochoa, Gustavo Outer plethysm, Burnside ring and β-rings. **90a:20025**

19A31 K_0 of group rings and orders

Items with secondary classifications in 19A31

Assadi, Amir H. On finite domination and simple homotopy type of nonsimply-connected *G*-spaces. **90k:57045**
Brown, K. A. (*with* Howie, James; Lorenz, Martin) Induced resolutions and Grothendieck groups of polycyclic-by-finite groups. **90d:20015**
Ewing, John H. (*with* Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. **90a:57030**
Hoechsmann, Klaus Généralisation d'un lemme de Kummer. (English summary) [Generalization of a lemma of Kummer] **90m:11173**
Howie, James *see* **Brown, K. A.; et al., 90d:20015**
Löffler, Peter *see* **Ewing, John H.; et al., 90a:57030**
Lorenz, Martin *see* **Brown, K. A.; et al., 90d:20015**
Lück, Wolfgang (*with* Ranicki, Andrew) Chain homotopy projections. **90i:57013**
Pedersen, Erik K. *see* **Ewing, John H.; et al., 90a:57030**
Ranicki, Andrew *see* **Lück, Wolfgang, 90i:57013**
Solberg, Øyvind Grothendieck groups for hypersurface rings. **90k:13012**

19A49 K_0 of other rings

Items with secondary classifications in 19A49

Alev, J. Algèbres d'invariants de $A_1(\mathbf{C})$. [Algebras of invariants of $A_1(\mathbf{C})$] **90c:16014**
Hodges, Timothy J. *K*-theory of Noetherian rings. **90m:16028**
— Equivariant *K*-theory for Noetherian rings. **90h:16044**
Ischebeck, Friedrich Subintegral ring extensions and some *K*-theoretical functors. **90f:13011**
Kucharz, W. How to make vector bundles algebraic. **90m:14018**
— Symplectic bilinear forms on affine real algebraic surfaces. **90e:14022**

19A99 None of the above, but in this section

Items with secondary classifications in 19A99

Lorenz, Martin (*with* Passman, D. S.) The structure of G_0 for certain polycyclic group algebras and related algebras. **90j:16059**
Passman, D. S. *see* **Lorenz, Martin, 90j:16059**
Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. **90e:57041**
(Wall, C. T. C.) *see* **Varadarajan, K., 90e:57041**

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10

Guin, Daniel Homologie du groupe linéaire et K-théorie de Milnor des anneaux. [Homology of linear groups and Milnor K-theory of rings] **90g:11051**

Rupp, Rudolf Stable rank of subalgebras of the disc algebra. **90f:46087**

Stepanov, A. V. Stable range and stability of arbitrary rows. **90g:16023**

19B14 Stability for linear groups

Items with secondary classifications in 19B14

van der Kallen, Wilberd A module structure on certain orbit sets of unimodular rows. **90b:18013**

Menal, Pere (*with* Vaserstein, L. N.) On subgroups of GL_2 over noncommutative local rings which are normalized by elementary matrices. **90k:20085**

Vaserstein, L. N. *see* **Menal, Pere, 90k:20085**

19B28 K_1 of group rings and orders

Items with secondary classifications in 19B28

Assadi, Amir H. On finite domination and simple homotopy type of nonsimply-connected G-spaces. **90k:57045**

Farrell, F. T. (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**

— (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**

— (*with* Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**

Jones, Lowell Edwin *see* **Farrell, F. T., 90h:57023a**; **90h:57023b** *and* **90h:57023c**

19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) **90k:20077**

Li, Fu An The question of normal subgroups and congruence subgroups of classical groups. (Chinese. English summary) **90a:20091**

Monastyrnyĭ, A. P. (*with* Yanchevskiĭ, V. I.) On the Whitehead groups and the Kneser-Tits conjecture for spinor groups. **90i:11040**

Tomanov, G. M. Congruence subgroup problem for groups of type G_2. **90i:20049**

— On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. **90m:11054**

Yanchevskiĭ, V. I. *see* **Monastyrnyĭ, A. P., 90i:11040**

19B99 None of the above, but in this section

Items with secondary classifications in 19B99

Browkin, Jerzy A theorem of Sturm and K_1 for rings of real continuous functions. **90a:18009**

19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

Items with secondary classifications in 19C09

Connes, Alain (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**

Karoubi, Max *see* **Connes, Alain, 90c:58174**

Li, Fu An Isomorphisms of Steinberg groups over commutative rings. **90d:20088**

19C20 Symbols, presentations of K_2

Items with secondary classifications in 19C20

Browkin, Jerzy Conjectures on the dilogarithm. **90m:11185**

Keune, Frans On the structure of the K_2 of the ring of integers in a number field. **90g:11162**

Lichtenbaum, Stephen Groups related to scissors-congruence groups. **90e:20030**

Yufryakov, A. V. A reduced norm for K_2 from local division algebras. (Russian) (*see* **90h:20005**)

19C30 K_2 and the Brauer group

Items with secondary classifications in 19C30

Grayson, Daniel R. On the K-theory of fields. **90c:18010**

Merkur'ev, A. S. Torsion in the group K_2 for fields. **90d:11130**

19C40 Excision for K_2

Items with secondary classifications in 19C40

Wagoner, J. B. Topological Markov chains, C^*-algebras, and K_2. **90j:46059**

19C99 None of the above, but in this section

Items with secondary classifications in 19C99

Candiotti, Alan (*with* Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. **90h:11108**

Conner, P. E. (*with* Hurrelbrink, J.) The 4-rank of $K_2(O)$. **90j:11130**

Gras, Georges (*with* Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regular number fields] **90i:11128**

Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. **90b:11125**

Hurrelbrink, J. *see* **Conner, P. E., 90j:11130**

Jaulent, Jean-François *see* **Gras, Georges, 90i:11128**

Komatsu, Keiichi K-groups and λ-invariants of algebraic number fields. **90b:11126**

Kramer, Kenneth *see* **Candiotti, Alan, 90h:11108**

Wagoner, J. B. Markov partitions and K_2. **90d:28022**

19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Items with secondary classifications in 19D06

Jardine, J. F. The homotopical foundations of algebraic K-theory. **90j:55029**

Pedersen, Erik K. (*with* Weibel, Charles A.) K-theory homology of spaces. **90m:55007**

Sherman, Clayton On the homotopy fiber of the map $BQ\mathscr{A}^{\oplus} \to BQ\mathscr{A}$ (after M. Auslander). **90e:18011**

Uridiya, M. B. Quillen's Q-construction for symmetric monoidal categories. (Russian. English summary) **90m:18012**

Weibel, Charles A. *see* **Pedersen, Erik K., 90m:55007**

19D10 Algebraic K-theory of spaces

Items with secondary classifications in 19D10

Igusa, Kiyoshi The stability theorem for smooth pseudoisotopies. **90d:57035**

Staffeldt, Ross E. On fundamental theorems of algebraic K-theory. **90g:18009**

19D25 Karoubi-Villamayor-Gersten K-theory

Items with secondary classifications in 19D25

Sherman, Clayton K-theory of discrete valuation rings. **90m:13015**

Van Daele, A. A new invariant for a finite covariant system. **90a:46119**

Weibel, Charles A. Homotopy algebraic K-theory. **90d:18006**

19D35 Negative K-theory, NK and Nil

Items with secondary classifications in 19D35

Lück, Wolfgang (*with* Ranicki, Andrew) Chain homotopy projections. **90i:57013**

Madsen, I. (*with* Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1}. **90g:57028**

Pedersen, Erik K. (*with* Weibel, Charles A.) K-theory homology of spaces. **90m:55007**

Ranicki, Andrew *see* **Lück, Wolfgang, 90i:57013**

Rothenberg, Melvin *see* **Madsen, I., 90g:57028**

Weibel, Charles A. *see* **Pedersen, Erik K., 90m:55007**

19D45 Higher symbols, Milnor K-theory

Items with secondary classifications in 19D45

Guin, Daniel Homologie du groupe linéaire et K-théorie de Milnor des anneaux. [Homology of linear groups and Milnor K-theory of rings] **90g:11051**

Jacob, Bill (*with* Rost, Markus) Degree four cohomological invariants for quadratic forms. **90g:11044**

Morava, Jack Browder-Fröhlich symbols. **90m:11190**

Nesterenko, Yu. P. (*with* Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K-theory. **90a:20092**

Rost, Markus *see* **Jacob, Bill, 90g:11044**

Suslin, A. A. *see* **Nesterenko, Yu. P., 90a:20092**

19D55 K-theory and homology

Items with secondary classifications in 19D55

Adem, Alejandro (*with* Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. **90k:55012**

Araki, Huzihiro Schwinger terms and cyclic cohomology. **90c:46084**

Arlettaz, Dominique Torsion classes in the cohomology of congruence subgroups. **90j:20097**

Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. **90e:22018**

— Central localization in Hochschild homology. **90b:18015**

Cohen, Ralph L. *see* **Adem, Alejandro; et al., 90k:55012**

Coquereaux, R. (*with* Kastler, Daniel) Remarks on the differential envelopes of associative algebras. **90g:16003**

Cortiñas, Guillermo (*with* Guccione, Jorge; Villamayor, Orlando E.) Cyclic homology of $K[\mathbf{Z}/p\cdot\mathbf{Z}]$. **90i:18006**

Dwyer, W. G. *see* **Adem, Alejandro; et al., 90k:55012**

Geller, S. (*with* Weibel, Charles A.) $K(A, B, I)$. II. **90h:18013**

Guccione, Jorge *see* **Cortiñas, Guillermo; et al., 90i:18006**

Kadison, Lars A relative cyclic cohomology theory useful for computations. (French summary) **90k:18014**

Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. **90d:58149**

Kassel, Christian Quand l'homologie cyclique périodique n'est pas la limite projective de l'homologie cyclique. (English summary) [When periodic cyclic homology is not the projective limit of cyclic homology] **90i:18007**
Kastler, Daniel Cyclic cocycles from graded KMS functionals. **90e:46068**
— Entire cyclic cohomology of **Z**/2-graded Banach algebras. **90e:46067**
— *see also* **Coquereaux, R., 90g:16003**
Natsume, Toshikazu (*with* Schack, Samuel D.) A decomposition for the cyclic cohomology of a commutative algebra. **90k:13010**
Nest, Ryszard Cyclic cohomology of crossed products with **Z**. **90c:46088**
Nesterenko, Yu. P. (*with* Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's *K*-theory. **90a:20092**
Quillen, Daniel Algebra cochains and cyclic cohomology. **90j:18008**
Roos, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré-Betti series in commutative algebra. **90f:55020**
Schack, Samuel D. *see* **Natsume, Toshikazu, 90k:13010**
Staffeldt, Ross E. On fundamental theorems of algebraic *K*-theory. **90g:18009**
Suslin, A. A. *see* **Nesterenko, Yu. P., 90a:20092**
Takhtadzhyan, L. A. The noncommutative homology of quantum tori. **90m:18015**
Van Daele, A. A new invariant for a finite covariant system. **90a:46119**
Villamayor, Orlando E. *see* **Cortiñas, Guillermo; et al., 90i:18006**
Weibel, Charles A. *see* **Geller, S., 90h:18013**

19D99 None of the above, but in this section

Items with secondary classifications in 19D99
Grayson, Daniel R. On the *K*-theory of fields. **90c:18010**
Gruntovich, M. M. A localization sequence in *K*-theory. (Russian) (*see* **90h:20005**)
Lück, Wolfgang (*with* Ranicki, Andrew) Surgery transfer. **90h:57041**
Ranicki, Andrew *see* **Lück, Wolfgang, 90h:57041**
Soulé, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beĭlinson's characteristic classes] **90h:14026**

19Exx *K*-theory in geometry

19E08 *K*-theory of schemes

Items with secondary classifications in 19E08
Al Amrani, A. Groupe de Chow et *K*-théorie cohérente des espaces projectifs tordus. (English summary) [The Chow group and coherent *K*-theory of twisted projective spaces] **90e:14003**
Panin, I. A. Algebraic *K*-theory of Grassmannian manifolds and their twisted forms. **90m:14010**
Pedrini, Claudio Riemann-Roch and Chow theories for singular varieties. **90e:14009**
Weibel, Charles A. A Brown-Gersten spectral sequence for the *K*-theory of varieties with isolated singularities. **90j:14012**

19E15 Algebraic cycles [see also 14C35]

Items with secondary classifications in 19E15
Bloch, Spencer Cycles and biextensions. **90d:14006**
Bochnak, J. (*with* Kucharz, W.) *K*-theory of real algebraic surfaces and threefolds. **90k:14018**
Kucharz, W. *see* **Bochnak, J., 90k:14018**
Lawson, H. Blaine, Jr. (*with* Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity, and the Chern characteristic map. **90d:14010**
Michelsohn, Marie-Louise *see* **Lawson, H. Blaine, Jr., 90d:14010**
Nesterenko, Yu. P. (*with* Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's *K*-theory. **90a:20092**
Raskind, Wayne Algebraic *K*-theory, étale cohomology and torsion algebraic cycles. **90d:14011**
Suslin, A. A. *see* **Nesterenko, Yu. P., 90a:20092**
Thomason, R. W. A finiteness condition equivalent to the Tate conjecture over $\mathbf{F}_q$. **90b:14029**

19E20 Relations with cohomology theories [see also 14F15]

Items with secondary classifications in 19E20
Esnault, Hélène On the Loday symbol in the Deligne-Beĭlinson cohomology. **90j:14025**
Pascual Gainza, P. Descente cubique pour la *K*-théorie des faisceaux cohérents et l'homologie de Chow. [Cubic descent for the *K*-theory of coherent sheaves and Chow homology] (*see* **90a:14024**)
Quillen, Daniel Algebra cochains and cyclic cohomology. **90j:18008**
Raskind, Wayne Algebraic *K*-theory, étale cohomology and torsion algebraic cycles. **90d:14011**
Soulé, Christophe Connexions et classes caractéristiques de Beilinson. [Connections and Beĭlinson's characteristic classes] **90h:14026**
Thomason, R. W. Survey of algebraic vs. étale topological *K*-theory. **90h:14029**

19E99 None of the above, but in this section

Items with secondary classifications in 19E99
Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**
Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. **90e:52005**

19Fxx *K*-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory

Items with secondary classifications in 19F05
Fesenko, I. B. A generalized symbol in multidimensional local fields. (Russian) **90d:11133**
Ihara, Yasutaka (*with* Saito, Takeshi) Introduction to the work of Kazuya Kato. (Japanese **90d:11077**
Kato, Kazuya A generalization of class field theory. (Japanese) **90g:11080**
— Swan conductors for characters of degree one in the imperfect residue field case. **90g:11164**
— *see also* **Ihara, Yasutaka, 90d:11077**
Saito, Shuji Arithmetic theory of arithmetic surfaces. **90f:11043**
— Some observations on motivic cohomology of arithmetic schemes. **90k:11077**
Saito, Takeshi *see* **Ihara, Yasutaka, 90d:11077**

19F15 Symbols and arithmetic

Items with secondary classifications in 19F15
Arbarello, Enrico (*with* De Concini, C.; Kac, V. G.) The infinite wedge representation and the reciprocity law for algebraic curves. **90i:22034**
De Concini, C. *see* **Arbarello, Enrico; et al., 90i:22034**
Gras, Georges (*with* Jaulent, Jean-François) Sur les corps de nombres réguliers. [On regula number fields] **90i:11128**
Jaulent, Jean-François *see* **Gras, Georges, 90i:11128**
Kac, V. G. *see* **Arbarello, Enrico; et al., 90i:22034**
Kersten, Ina On K_2 and $\mathbf{Z}_p$-extensions of $\mathbf{Q}(\zeta^r)$. **90m:11163**

19F27 Étale cohomology, higher regulators, zeta and *L*-functions [see also 11R42, 11S40, 14G10]

Items with secondary classifications in 19F27
Deligne, P. Le groupe fondamental de la droite projective moins trois points. [The fundamental group of the projective line minus three points] **90m:14016**
Deninger, Ch. Higher regulators of elliptic curves with complex multiplication. **90f:11040**
— Higher regulators and Hecke *L*-series of imaginary quadratic fields. I. **90f:11041**
Dupont, Johan L. On polylogarithms. **90d:14009**
Esnault, Hélène On the Loday symbol in the Deligne-Beĭlinson cohomology. **90j:14025**
Hettling, Karl F. On odd prime numbers dividing the order of $K_2(o)$. **90b:11125**
Jannsen, Uwe On the Galois cohomology of *l*-adic representations attached to varieties over local or global fields. **90c:14010**
— On the *l*-adic cohomology of varieties over number fields and its Galois cohomology. **90i:11064**
Jardine, J. F. Universal Hasse-Witt classes. **90h:14027**
Kolster, Manfred A relation between the 2-primary parts of the main conjecture and the Birch-Tate-conjecture. **90k:11154**
Komatsu, Keiichi Eine Bemerkung über Dedekindsche Zetafunktionen und *K*-Gruppe. [A remark on Dedekind zeta functions and *K*-group] **90m:11179**
Nart, Enric The Bloch complex in codimension one and arithmetic duality. **90j:11057**
Neukirch, Jürgen The Beĭlinson conjecture for algebraic number fields. **90f:11042**
Snaith, Victor Explicit Brauer induction. **90a:22025**
Thomason, R. W. Survey of algebraic vs. étale topological *K*-theory. **90h:14029**
Zagier, Don The Bloch-Wigner-Ramakrishnan polylogarithm function. **90k:11153**

19F99 None of the above, but in this section

Items with secondary classifications in 19F99
Candiotti, Alan (*with* Kramer, Kenneth) On the 2-Sylow subgroup of the Hilbert kernel of K_2 of number fields. **90h:11108**
Conner, P. E. (*with* Hurrelbrink, J.) The 4-rank of $K_2(O)$. **90j:11130**
Hurrelbrink, J. *see* **Conner, P. E., 90j:11130**
Komatsu, Keiichi *K*-groups and *λ*-invariants of algebraic number fields. **90b:11126**
Kramer, Kenneth *see* **Candiotti, Alan, 90h:11108**
Snaith, Victor ★ Topological methods in Galois representation theory. **90f:12005**

19Gxx *K*-theory of forms [see also 11Exx]

19G05 Stability for quadratic modules

Items with secondary classifications in 19G05
Panin, I. A. Stabilization for orthogonal and symplectic algebraic *K*-theories. (Russian) **90g:20067**
Plotkin, E. B. Surjective stabilization of a *K*-functor for Chevalley groups of normal and twisted types. **90c:18011**

19G12 Witt groups of rings [see also 11E81]

Items with secondary classifications in 19G12
Arason, Jón Kr. (*with* Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. II. **90a:11043**
Bochnak, J. (*with* Kucharz, W.) *K*-theory of real algebraic surfaces and threefolds. **90k:14018**

Bos, Rik A structure theorem for abstract Witt rings containing rigid elements. **90i:11044**
Elman, Richard *see* **Arason, Jón Kr.; et al., 90a:11043**
Iwan, Andrzej (*with* Wowk, Czesław) Basic part of Witt rings of elementary type. **90d:11049**
Jacob, Bill *see* **Arason, Jón Kr.; et al., 90a:11043**
Jiang, Di Hua The structure of the Grothendieck groups of almost unimodular quadratic lattices. (Chinese) **90h:11034**
Kucharz, W. Symplectic complex bundles over real algebraic four-folds. **90k:14021**
— *see also* **Bochnak, J., 90k:14018**
Lewis, D. W. New proofs of the structure theorems for Witt rings. **90d:11050**
— Hermitian forms over odd-dimensional algebras. **90g:11048**
Wowk, Czesław *see* **Iwan, Andrzej, 90d:11049**

19G24 L-theory of group rings [see also 11E81]

Items with secondary classifications in 19G24

Hambleton, Ian (*with* Madsen, I.) On the discriminants of forms with Arf invariant one. **90f:11026**
Lück, Wolfgang (*with* Ranicki, Andrew) Chain homotopy projections. **90i:57013**
Madsen, I. *see* **Hambleton, Ian, 90f:11026**
Ranicki, Andrew *see* **Lück, Wolfgang, 90i:57013**
Yamasaki, Masayuki L-groups of virtually polycyclic groups. **90j:57025**

19G38 Relations with K-theory of rings

Items with secondary classifications in 19G38

Bayer-Fluckiger, E. (*with* Kearton, C.; Wilson, S. M. J.) Hermitian forms in additive categories: finiteness results. **90k:11038**
Kearton, C. *see* **Bayer-Fluckiger, E.; et al., 90k:11038**
Wilson, S. M. J. *see* **Bayer-Fluckiger, E.; et al., 90k:11038**

19G99 None of the above, but in this section

Items with secondary classifications in 19G99

Jacob, Bill (*with* Rost, Markus) Degree four cohomological invariants for quadratic forms. **90g:11044**
Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. **90c:17014**
Rost, Markus *see* **Jacob, Bill, 90g:11044**

19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Items with secondary classifications in 19K14

Anderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**
Blackadar, Bruce Comparison theory for simple C^*-algebras. **90g:46078**
Bratteli, Ola (*with* Elliott, George A.; Goodman, Fred; Jørgensen, Palle E. T.) Smooth Lie group actions on noncommutative tori. **90i:46116**
Elliott, George A. *see* **Bratteli, Ola; et al., 90i:46116**
Goodman, Fred *see* **Bratteli, Ola; et al., 90i:46116**
Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. **90e:52005**
Jørgensen, Palle E. T. *see* **Bratteli, Ola; et al., 90i:46116**
Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) **90j:46062**
Kodaka, Kazunori On automorphisms of irrational rotation algebras. **90g:46081**
— Automorphisms of unital C*-algebras which are strongly Morita equivalent to irrational rotation C*-algebras. **90g:46103**
Levi, Roni N. Spectral theory of commuting operators and K-theory. (Russian. English summary) **90k:58218**
Murphy, Gerald J. Simple C^*-algebras and subgroups of **Q**. **90g:46104**
O'Donovan, D. P. A tale of three C^*-algebras. **90e:46069**
Paschke, William *see* **Anderson, Joel, 90k:46126**
Pitts, David R. On the K_0 groups of nest algebras. **90k:47097**
Poon, Yiu-Tung A K-theoretic invariant for dynamical systems. **90c:46091**
Wagoner, J. B. Topological Markov chains, C^*-algebras, and K_2. **90j:46059**
Watatani, Y. Index for C^*-subalgebras. **90i:46104**

19K33 EXT and K-homology

Items with secondary classifications in 19K33

Baaj, Saad (*with* Skandalis, Georges) C^*-algèbres de Hopf et théorie de Kasparov équivariante. (English summary) [Hopf C^*-algebras and equivariant Kasparov theory] **90j:46061**
Connes, Alain (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**
Gong, Gui Hua Smooth extensions for a finite CW complex. **90i:46125**
Ichihara, Ryo An extension of Paschke's theorem and the Mayer-Vietoris type exact sequences. **90d:46096**
Ji, Ronghui (*with* Kaminker, J.) The K-theory of Toeplitz extensions. **90b:46130**
Julg, Pierre C^*-algèbres associées à des complexes simpliciaux. (English summary) [C^*-algebras associated to simplicial complexes] **90d:46097**
Kaminker, J. *see* **Ji, Ronghui, 90b:46130**
Karoubi, Max *see* **Connes, Alain, 90c:58174**
Lusztig, George Representations of affine Hecke algebras. **90k:22028**
Rosenberg, Jonathan K-theory of group C^*-algebras, foliation C^*-algebras, and crossed products. **90a:46185**
Schwalbe, Daniel K-theory for discrete subgroups of the Lorentz groups. **90k:22006**
Skandalis, Georges Une notion de nucléarité en K-théorie (d'après J. Cuntz). (English summary) [A notion of nuclearity in K-theory (following J. Cuntz)] **90b:46131**
— *see also* **Baaj, Saad, 90j:46061**
Thomsen, Klaus ★ Hilbert C^*-modules, KK-theory and C^*-extensions. **90e:46070**
Weidner, Jens KK-groups for generalized operator algebras. I, II. **90k:46153**
Zekri, Richard A new description of Kasparov's theory of C^*-algebra extensions. **90g:46106**

19K56 Index theory

Items with secondary classifications in 19K56

Connes, Alain (*with* Moscovici, Henri) Conjecture de Novikov et groupes hyperboliques. (English summary) [Hyperbolic groups and the Novikov conjecture] **90e:57048**
— Entire cyclic cohomology of Banach algebras and characters of θ-summable Fredholm modules. **90c:46094**
— Compact metric spaces, Fredholm modules, and hyperfiniteness. **90i:46124**
Douglas, R. G. Elliptic invariants and operator algebras: toroidal examples. **90f:58169**
— (*with* Hurder, S.; Kaminker, J.) Eta invariants and von Neumann algebras. **90g:58128**
Fack, Thierry Sur la conjecture de Novikov. (English summary) [On Novikov's conjecture] **90e:58150**
Getzler, Ezra (*with* Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. **90g:58124**
Haskell, Peter Direct limits in an equivariant K theory defined by proper cocycles. **90g:58126**
Hilsum, Michel (*with* Skandalis, Georges) Morphismes K-orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K-oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] **90a:58169**
Hurder, S. *see* **Douglas, R. G.; et al., 90g:58128**
Jaffe, Arthur (*with* Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. **90k:81104**
Jones, John D. S. *see* **Getzler, Ezra; et al., 90g:58124**
Julg, Pierre Indice relatif et K-théorie bivariante de Kasparov. (English summary) [Relative index and Kasparov's bivariant K-theory] **90c:58175**
Kaminker, J. Secondary invariants for elliptic operators and operator algebras. **90g:58127**
— *see also* **Douglas, R. G.; et al., 90g:58128**
Lesniewski, Andrzej *see* **Jaffe, Arthur, 90k:81104**
Mori, Keiichi Discrete series representations and K-theory of Hilbert C^* modules. **90g:22019**
Moscovici, Henri *see* **Connes, Alain, 90e:57048**
Petrack, Scott B. *see* **Getzler, Ezra; et al., 90g:58124**
Phillips, N. Christopher Equivariant K-theory for proper actions and C^*-algebras. **90a:46182**
— Equivariant K-theory for proper actions. II. Some cases in which finite-dimensional bundles suffice. **90a:46183**
Rosenberg, Jonathan Applications of analysis on Lipschitz manifolds. **90e:57034**
— (*with* Weinberger, Shmuel) Higher G-indices and applications. **90f:58170**
Skandalis, Georges *see* **Hilsum, Michel, 90a:58169**
Takai, Hiroshi Baum-Connes conjectures and their applications. **90b:58259**
Troitskii, E. V. An exact K-cohomology C^*-index formula. II. An index theorem and its applications. **90j:58147**
Weinberger, Shmuel *see* **Rosenberg, Jonathan, 90f:58170**

19K99 None of the above, but in this section

Items with secondary classifications in 19K99

Fox, Jeff (*with* Haskell, Peter) A new proof of the K-amenability of SU(1, 1). **90a:46180**
Haskell, Peter *see* **Fox, Jeff, 90a:46180**
Hu, Chuanpu A generalization of K-theory for complex Banach algebras. **90b:46135**
Jaffe, Arthur (*with* Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K-theory. I. The Chern character. **90a:58170**
Ji, Ronghui On the smoothed Toeplitz extensions and K-theory. **90m:46121**
Jolissaint, Paul K-theory of reduced C^*-algebras and rapidly decreasing functions on groups. **90j:22004**
Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 90a:58170**
Muhly, Paul S. (*with* Putnam, Ian F.; Xia, Jingbo) Contributions to the K-theory of C^*-algebras of Toeplitz and singular integral operators. **90a:47070**
Nest, Ryszard Cyclic cohomology of noncommutative tori. **90c:46089**
— Cyclic cohomology of crossed products with **Z**. **90c:46088**
Osterwalder, Konrad *see* **Jaffe, Arthur; et al., 90a:58170**
Putnam, Ian F. The C^*-algebras associated with minimal homeomorphisms of the Cantor set. **90a:46184**
— *see also* **Muhly, Paul S.; et al., 90a:47070**
Suzuki, Haruo A note in K-theory of some C^*-algebras. **90c:46092**
Van Daele, A. A note on the K-group of a graded Banach algebra. **90d:46102**
Xia, Jingbo *see* **Muhly, Paul S.; et al., 90a:47070**

19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

Items with secondary classifications in 19L10

Baum, Paul (*with* Connes, Alain) Chern character for discrete groups. **90e:58149**
Connes, Alain *see* **Baum, Paul, 90e:58149**
Futaki, Akito (*with* Tsuboi, Kenji) On some integral invariants, Lefschetz numbers and induction maps. **90e:58148**
Quillen, Daniel Algebra cochains and cyclic cohomology. **90j:18008**
Thomason, R. W. Survey of algebraic vs. étale topological K-theory. **90h:14029**
Tsuboi, Kenji *see* **Futaki, Akito, 90e:58148**

19L20 J-homomorphism, Adams operations [see also 55Q50]

Items with secondary classifications in 19L20

Ghazal, Tahsin A new example in K-theory of loopspaces. **90h:55006**
Knapp, K. Stably spherical classes in the K-homology of a finite group. **90a:55012**
Kôno, Susumu (*with* Tamamura, Akie) J-groups of suspensions of stunted lens spaces mod 4. **90m:55014**
Tamamura, Akie *see* **Kôno, Susumu, 90m:55014**

19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Items with secondary classifications in 19L47

Baum, Paul (*with* Connes, Alain) Chern character for discrete groups. **90e:58149**
Connes, Alain *see* **Baum, Paul, 90e:58149**
Prieto, Carlos The K-theory of diagrams. (Spanish) **90d:55007**
Ulrich, Hanno ★ Fixed point theory of parametrized equivariant maps. **90h:57045**

19L64 Computations, geometric applications

Items with secondary classifications in 19L64

Ahn, Seung Ho *see* **Lee, Ke An; et al., 90a:55013**
Ajetunmobi, M. O. Some results on the real K-theory of certain homogeneous spaces. **90a:55028**
Costinescu, Cristian Nicolae The Z_8-graded structure of $KO^*(\mathrm{Sp}(n))$ groups. (Romanian) **90d:55006**
Hegenbarth, Friedrich On the K-theory of the classifying spaces of the general linear groups over finite fields. **90c:55017**
Jeon, Won-Kee *see* **Lee, Ke An; et al., 90a:55013**
Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. **90d:58149**
Lee, Ke An (*with* So, Kwangho; Jeon, Won-Kee; Ahn, Seung Ho) Computations of some $\widetilde{K}_F(S^n)$ and $\widetilde{K}_F(P_3(\mathbf{R}))$. **90a:55013**
Markl, Martin The real K-ring of some CW-complexes of small dimension. **90a:55014**
So, Kwangho *see* **Lee, Ke An; et al., 90a:55013**
Yamaguchi, Atsushi Morava K-theory of double loop spaces of spheres. **90e:55009**

19L99 None of the above, but in this section

Items with secondary classifications in 19L99

Baker, Andrew James Some families of operations in Morava K-theory. **90d:55030**
tom Dieck, Tammo The Artin-Hasse logarithm for λ-rings. **90d:55031**
Fesenko, I. B. K-groups of a multidimensional local field. **90c:11089**
Snaith, Victor ★ Topological methods in Galois representation theory. **90f:12005**

19M05 Miscellaneous applications of K-theory

Items with secondary classifications in 19M05

Burghelea, Dan A localization theorem for functional S^1-spaces. **90d:55010**
Freitas, Raphaël K-théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] **90j:55009**
Kholodov, A. N. The umbral calculus on many-valued formal groups, and Adams projectors in K-theory. **90e:55010**
Laitinen, Erkki (*with* Lück, Wolfgang) Equivariant Lefschetz classes. **90j:55005**
Lück, Wolfgang *see* **Laitinen, Erkki, 90j:55005**
Morimoto, Masaharu Bak groups and equivariant surgery. **90d:57037**
Phillips, N. Christopher ★ Equivariant K-theory for proper actions. **90g:46105**

20–XX Group theory and generalizations

20–01 Elementary exposition; textbooks

Armstrong, M. A. ★ Groups and symmetry. **90b:20001**
Cheng, Yungchen Decompositions of U-groups. **90h:20001**
Macdonald, Ian D. ★ The theory of groups. **90a:20001**
Rédei, László ★ Endliche p-Gruppen. (German) [Finite p-groups] **90i:20001**

Items with secondary classifications in 20–01

Nagao, Hirosi ★ Daisugaku. (Japanese) [Algebra] **90h:00001**
— (*with* Tsushima, Yukio) ★ Representations of finite groups. **90h:20008**
(Reid, Miles) *see* **Shafarevich, I. R., 90k:00010**
Shafarevich, I. R. ★ Noţiunile fundamentale ale algebrei. (Romanian) [The fundamental notions of algebra] **90k:00009**
— ★ Algebra. I. **90k:00010**
(Sislian, Jean) *see* **Smirnov, Vladimir Ivanovich, 90k:00002a**
Smirnov, Vladimir Ivanovich ★ Cours de mathématiques supérieures. Tome III. Première partie. (French) [Course of higher mathematics. Vol. III. Part 1] **90k:00002a**
(Spircu, T.) *see* **Shafarevich, I. R., 90k:00009**
Tsushima, Yukio *see* **Nagao, Hirosi, 90h:20008**
Yale, Paul B. ★ Geometry and symmetry. **90g:51003**

20–02 Advanced exposition (research surveys, monographs, etc.)

Brown, Kenneth S. ★ Buildings. **90e:20001**
Carter, R. W. ★ Simple groups of Lie type. **90g:20001**
Curtis, Charles W. (*with* Reiner, Irving) ★ Methods of representation theory. Vol. I. **90k:20001**
(Dieudonné, Jean) *see* **Hahn, Alexander J., 90i:20002**
Ellis, G. J. Crossed modules. **90d:20001**
Fine, Benjamin ★ Algebraic theory of the Bianchi groups. **90h:20002**
Hahn, Alexander J. (*with* O'Meara, O. Timothy) ★ The classical groups and K-theory. **90i:20002**
Higman, Graham (*with* Scott, Elizabeth A.) ★ Existentially closed groups. **90a:20002**
O'Meara, O. Timothy *see* **Hahn, Alexander J., 90i:20002**
Putcha, Mohan S. ★ Linear algebraic monoids. **90a:20003**
Reiner, Irving *see* **Curtis, Charles W., 90k:20001**
Ronan, M. A. ★ Lectures on buildings. **90j:20001**
Scott, Elizabeth A. *see* **Higman, Graham, 90a:20002**

Items with secondary classifications in 20–02

Curtis, Charles W. (*with* Reiner, Irving) ★ Representation theory of finite groups and associative algebras. **90g:16001**
Reiner, Irving *see* **Curtis, Charles W., 90g:16001**

20–03 Historical (must also be assigned at least one classification number from Section 01)

(Berman, S. D.) *see* **Karpilovsky, Gregory, 90g:20002**
Karpilovsky, Gregory Berman's contributions to group representations over fields. **90g:20002**

Items with secondary classifications in 20–03

(Berman, S. D.) *see* **Lichtman, Alexander I., 90g:20010** *and* **Sandling, Robert, 90k:20013**
Brigaglia, Aldo The introduction of modern algebra in Italy. (Italian) **90a:01042**
Cassinet, Jean Paolo Ruffini (1765–1822): la résolution algébrique des équations et les groupes de permutations. [Paolo Ruffini (1765–1822): the algebraic solution of equations and permutation groups] **90d:01030**
Curzio, Mario Guido Zappa and group theory. (Italian) **90b:01068**
Göbel, Rüdiger Helmut Ulm: his work and its impact on recent mathematics. **90c:01035**
Gorenstein, Daniel The classification of the finite simple groups, a personal journey: the early years. **90g:01031**
Lichtman, Alexander I. S. D. Berman's contribution to the theory of integral representations of finite groups. **90g:20010**
Mader, A. Heinz Prüfer and his papers on abelian groups. **90f:01035**
Miyake, Katsuya A note on the arithmetic background to Frobenius' theory of group characters. **90k:11152**
(Prüfer, Heinz) *see* **Mader, A., 90f:01035**
(Ruffini, Paolo) *see* **Cassinet, Jean, 90d:01030**
Sandling, Robert Berman's work on units in group rings. **90k:20013**
(Ulm, Helmut) *see* **Göbel, Rüdiger, 90c:01035**
(Zappa, Guido) *see* **Curzio, Mario, 90b:01068**

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Balasubramanian, K. *see* **Liu, Xiaoyu, 90m:20001**
Butler, Gregory (*with* Cannon, John J.) Computing in permutation and matrix groups. III. Sylow subgroups. **90i:20003**
Cannon, John J. *see* **Butler, Gregory, 90i:20003**
Chen, Bing-Qing *see* **Ping, Jia Lun; et al., 90h:20003**
Chen, Jin Quan *see* **Ping, Jia Lun; et al., 90h:20003**
Liu, Xiaoyu (*with* Balasubramanian, K.) Computer generation of character tables of generalized wreath product groups. **90m:20001**
Newman, M. F. (*with* O'Brien, E. A.) A CAYLEY library for the groups of order dividing 128. **90b:20002**
O'Brien, E. A. *see* **Newman, M. F., 90b:20002**
Ping, Jia Lun (*with* Zheng, Qing Rong; Chen, Bing-Qing; Chen, Jin Quan) Computer generated subgroup-symmetry adapted irreducible representations and CG coefficients of space groups by the eigenfunction method. **90h:20003**
Sangróniz, J. *see* **Vera López, Antonio, 90d:20002**
Vera López, Antonio (*with* Sangróniz, J.) An algorithm for computing the conjugacy vector of a group. (Spanish. English summary) **90d:20002**
Zheng, Qing Rong *see* **Ping, Jia Lun; et al., 90h:20003**
Zhou, Tai Jin A general method for finding the projection operators of point groups using a computer program. (Chinese. English summary) **90a:20004**

Items with secondary classifications in 20–04

Balasubramanian, K. *see* **Liu, Xiaoyu, 90e:20012**

Brown, Cynthia (*with* Cooperman, Gene; Finkelstein, Larry) Solving permutation problems using rewriting systems. **90k:20005**

Cooperman, Gene *see* **Brown, Cynthia; et al., 90k:20005**

Finkelstein, Larry *see* **Brown, Cynthia; et al., 90k:20005**

Glasby, S. P. Constructing normalisers in finite soluble groups. **90f:68092**

— Intersecting subgroups of finite soluble groups. **90f:68093**

Holt, Derek F. Computation of cohomology groups and enumeration of finite perfect groups. (*see* **90m:00036**)

James, Rodney (*with* Newman, M. F.; O'Brien, E. A.) The groups of order 128. **90j:20050**

Liu, Xiaoyu (*with* Balasubramanian, K.) Computer generation of the character tables of the symmetric groups (S_n). **90e:20012**

Newman, M. F. *see* **James, Rodney; et al., 90j:20050**

O'Brien, E. A. *see* **James, Rodney; et al., 90j:20050**

Pittaluga, Marilena (*with* Strickland, Elisabetta) A computer oriented algorithm for the determination of the dimension and character of a modular irreducible $\mathrm{SL}(n, K)$-module. **90d:20027**

Rockmore, Daniel Computation of Fourier transforms on the symmetric group. **90i:20013**

Strickland, Elisabetta *see* **Pittaluga, Marilena, 90d:20027**

20–06 Proceedings, conferences, etc.

(Borevich, Z. I.) *see* **Structural properties of algebraic systems, 90h:20005**

(Fuchs, László^1) *see* **Abelian group theory, 90a:20005**

(Göbel, Rüdiger) *see* **Abelian group theory, 90a:20005**

(Ito, Masami^1) *see* **Proceedings: Symposium on Semigroups, 90k:20003**

(Katsura, Masashi) *see* **Proceedings: Symposium on Semigroups, 90k:20003**

(Kim, A. C.) *see* **Groups—Korea 1988, 90h:20004**

(Kobayashi, Yuji) *see* **Proceedings: Symposium on Semigroups, 90e:20002**

(Lajos, S.) *see* **Notes on algebraic systems, 90k:20002**

(Lyapin, E. S.) *see* **Semigroup studies of mappings, 90k:20004**

(Neumann, B. H.) *see* **Groups—Korea 1988, 90h:20004**

(Schultz, Phillip) *see* **Abelian group theory, 90a:20005**

(Shemetkov, L. A.) *see* **Problems in algebra, 90d:20003**

(Szép, J.) *see* **Notes on algebraic systems, 90k:20002**

Items listed otherwise than by author

Abelian group theory ★ Abelian group theory. **90a:20005**

All-Union Symposium:

- **Group Theory** ★ Вопросы алгебры. Вып. 4. (Russian) [Problems in algebra. No. 4] **90d:20003**

Conference:

- **Abelian Group Theory** ★ Abelian group theory. **90a:20005**
- **Group Theory** ★ Groups—Korea 1988. **90h:20004**

Contemporary Mathematics ★ Abelian group theory. **90a:20005**

Gomel′ ★ Вопросы алгебры. Вып. 4. (Russian) [Problems in algebra. No. 4] **90d:20003**

Groups—Korea 1988 ★ Groups—Korea 1988. **90h:20004**

Kyoto ★ Proceedings of the 13th Symposium on Semigroups. **90k:20003**

Lecture Notes in Mathematics ★ Groups—Korea 1988. **90h:20004**

Notes on algebraic systems ★ Notes on algebraic systems. V. **90k:20002**

Orbites unipotentes et représentations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**

Perth ★ Abelian group theory. **90a:20005**

Problems in algebra ★ Вопросы алгебры. Вып. 4. (Russian) [Problems in algebra. No. 4] **90d:20003**

Proceedings:

- **Symposium on Semigroups** ★ Proceedings of the 12th Symposium on Semigroups. **90e:20002**
- — ★ Proceedings of the 13th Symposium on Semigroups. **90k:20003**

Pusan ★ Groups—Korea 1988. **90h:20004**

Semigroup studies of mappings ★ Полугрупповые исследования отображений. (Russian) [Semigroup studies of mappings] **90k:20004**

Structural properties of algebraic systems ★ Структурные свойства алгебраических систем. (Russian) [Structural properties of algebraic systems] **90h:20005**

Symposium:

- **Semigroups** ★ Proceedings of the 12th Symposium on Semigroups. **90e:20002**
- — ★ Proceedings of the 13th Symposium on Semigroups. **90k:20003**

Tokushima ★ Proceedings of the 12th Symposium on Semigroups. **90e:20002**

Unipotent orbits and representations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**

Items with secondary classifications in 20–06

(Berman, S. D.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Białynicki-Birula, A.) *see* **Group actions and invariant theory, 90e:14002**

(Carrell, J.) *see* **Group actions and invariant theory, 90e:14002**

(Fossum, R.) *see* **Invariant theory, 90a:14002**

(Göbel, Rüdiger) *see* **Abelian group theory, 90d:20093**

(Gruenberg, K. W.) *see* **Hall, Philip^1, 90b:01108**

(Haboush, W.) *see* **Invariant theory, 90a:14002**

Hall, Philip^1 ★ The collected works of Philip Hall. **90b:01108**

(Hochster, M.) *see* **Invariant theory, 90a:14002**

(Isaacs, M.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Lakshmibai, V.) *see* **Invariant theory, 90a:14002**

(Lichtman, Alexander I.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Passman, D. S.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Pin, J.-E.) *see* **Formal properties of finite automata and applications, 90k:68006**

(Roseblade, J. E.) *see* **Hall, Philip^1, 90b:01108**

(Russell, P.) *see* **Group actions and invariant theory, 90e:14002**

(Sehgal, Sudarshan K.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Sloane, N. J. A.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

(Snow, Dennis M.) *see* **Group actions and invariant theory, 90e:14002**

(Stanton, Dennis) *see* **Invariant theory and tableaux, 90h:15040**

(Tangora, Martin C.) *see* **Computers in algebra, 90m:00036**

(Walker, Elbert A.) *see* **Abelian group theory, 90d:20093**

(Zassenhaus, H.) *see* **Representation theory, group rings, and coding theory, 90a:00012**

Items listed otherwise than by author

Abelian group theory ★ Abelian group theory. **90d:20093**

Chicago, IL ★ Computers in algebra. **90m:00036**

Computers in algebra ★ Computers in algebra. **90m:00036**

Conference:

- **Abelian Group Theory** ★ Abelian group theory. **90d:20093**
- **Computers in Algebra** ★ Computers in algebra. **90m:00036**
- **Group Actions and Invariant Theory** ★ Group actions and invariant theory. **90e:14002**

Contemporary Mathematics ★ Representation theory, group rings, and coding theory. **90a:00012**

— ★ Invariant theory. **90a:14002**

Denton, TX ★ Invariant theory. **90a:14002**

Formal properties of finite automata and applications ★ Formal properties of finite automata and applications. **90k:68006**

Group actions and invariant theory ★ Group actions and invariant theory. **90e:14002**

Invariant theory ★ Invariant theory. **90a:14002**

Invariant theory and tableaux ★ Invariant theory and tableaux. **90h:15040**

Lecture Notes in Computer Science ★ Formal properties of finite automata and applications. **90k:68006**

Meeting:

- **American Mathematical Society** ★ Invariant theory. **90a:14002**

Minneapolis, MN ★ Invariant theory and tableaux. **90h:15040**

Montreal, PQ ★ Group actions and invariant theory. **90e:14002**

Oberwolfach ★ Abelian group theory. **90d:20093**

Quantum groups and the Robinson-Schensted correspondences ★ Ryoshigun to Robinson-Schensted taiō. (Japanese) [Quantum groups and the Robinson-Schensted correspondences] **90k:05008**

Ramatuelle ★ Formal properties of finite automata and applications. **90k:68006**

Representation theory, group rings, and coding theory ★ Representation theory, group rings, and coding theory. **90a:00012**

School:

- **Theoretical Computer Science** ★ Formal properties of finite automata and applications. **90k:68006**

Session:

- **Invariant Theory** ★ Invariant theory. **90a:14002**

Symposium:

- **Quantum Groups and the Robinson-Schensted Correspondences** ★ Ryoshigun to Robinson-Schensted taiō. (Japanese) [Quantum groups and the Robinson-Schensted correspondences] **90k:05008**

Workshop:

- **Invariant Theory and Tableaux** ★ Invariant theory and tableaux. **90h:15040**

20Axx Foundations

20A05 Axiomatics and elementary properties

Bergmann, Horst Eine Bemerkung zu den zyklischen Gruppen. [A remark on cyclic groups] **90j:20002**

Cieślak, W. (*with* Zając, Józef) Polar decomposition of involutive groups. (Russian and Polish summaries) **90g:20004**

Crippa, Jane de O. A condition for a finite group to be cyclic. (Portuguese. English summary) **90f:20001**

Xuan, Heng Nong A simple proof of a famous theorem in abstract algebra. (Chinese) (Not in MR)

Zając, Józef *see* **Cieślak, W., 90g:20004**

Items with secondary classifications in 20A05

Kapur, Deepak (*with* Zhang, Hantao) Proving equivalence of different axiomatizations of free groups. **90a:20048**

Zhang, Hantao *see* **Kapur, Deepak, 90a:20048**

20A10 Metamathematical considerations {For word problems, see 20F10.}

Bayasgalan, B. (*with* Vazhenin, Yu. M.) Decidability of theories of classes of powers of semigroups. **90f:20002**

Vazhenin, Yu. M. *see* **Bayasgalan, B., 90f:20002**

Items with secondary classifications in 20A10

Luo, Li Bo The upper bound complexity of abelian group theory. **90m:03076**

Meĭrembekov, K. A. Non-two-cardinal theories of abelian groups and fields. (Russian) **90a:03044**

20A15 Applications of logic to group theory

Oger, Francis Elementary equivalence of a polycyclic-by-finite group and its profinite completion. **90f:20003**

Items with secondary classifications in 20A15

Baudisch, Andreas On the model theory of free metabelian groups of bounded exponent. **90j:03084**

Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. **90h:20032**

Corredor, Luis Jaime Bad groups of finite Morley rank. **90k:20074**

Drobotun, B. N. *see* **Goncharov, S. S., 90g:20049**

Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90h:20032**

Goncharov, S. S. (*with* Drobotun, B. N.) The algorithmic dimension of nilpotent groups. **90g:20049**

Haddad, Labib (*with* Sureau, Yves) Les cogroupes et les D-hypergroupes. (English summary) [Cogroups and D-hypergroups] **90a:20144**

Higman, Graham (*with* Scott, Elizabeth A.) ★ Existentially closed groups. **90a:20002**

Hodges, Wilfrid Categoricity and permutation groups. **90j:03064**

Macpherson, Dugald Absolutely ubiquitous structures and $\aleph_0$-categorical groups. **90a:03043**

Mekler, Alan H. (*with* Shelah, Saharon) Diamond and λ-systems. **90i:03055**

Myasnikov, A. G. (*with* Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) **90a:03050**

— (*with* Remeslennikov, V. N.) ★ Допустимые множества в теории групп. (Russian) [Admissible sets in group theory] **90j:03065**

Nesin, Ali Nonsolvable groups of Morley rank 3. **90k:20073**

Pillay, A. An application of model theory to real and p-adic algebraic groups. **90m:03061**

Remeslennikov, V. N. *see* **Myasnikov, A. G., 90a:03050** *and* **90j:03065**

Scott, Elizabeth A. *see* **Higman, Graham, 90a:20002**

Shelah, Saharon *see* **Mekler, Alan H., 90i:03055**

Sureau, Yves *see* **Haddad, Labib, 90a:20144**

Tanaka, Katsumi^2 Some local properties of ω-stable groups. **90a:03045**

— Nonabelian groups of Morley rank 2. **90a:03051**

Tsuboi, Akito On a property of ω-stable solvable groups. **90a:03046**

— Solvable and nilpotent structures. **90j:03066**

Zil′ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures. (Russian) **90a:03052**

20A99 None of the above, but in this section

Items with secondary classifications in 20A99

Cieślak, W. (*with* Zając, Józef) Polar decomposition of involutive groups. (Russian and Polish summaries) **90g:20004**

Gorbachuk, O. L. (*with* Mikhalovs′ka, N. M.) Axiomatization of classes of abelian groups. (Ukrainian. Russian summary) (Not in MR)

Mikhalovs′ka, N. M. *see* **Gorbachuk, O. L.**, (Not in MR)

Zając, Józef *see* **Cieślak, W., 90g:20004**

20Bxx Permutation groups

20B05 General theory for finite groups

Aschbacher, Michael (*with* Guralnick, R.) On abelian quotients of primitive groups. **90a:20006**

Bonisoli, Arrigo Planar permutation groups. **90d:20004**

Brown, Cynthia (*with* Cooperman, Gene; Finkelstein, Larry) Solving permutation problems using rewriting systems. **90k:20005**

— (*with* Finkelstein, Larry; Purdom, Paul Walton, Jr.) A new base change algorithm for permutation groups. **90j:20003**

Cameron, Peter J. (*with* Deza, M.; Frankl, Peter) Intersection theorems in permutation groups. **90f:20004**

Chermak, Andrew (*with* Delgado, Alberto L.) A measuring argument for finite groups. **90c:20001**

Cooperman, Gene (*with* Finkelstein, Larry; Purdom, Paul Walton, Jr.) Fast group membership using a strong generating test for permutation groups. **90j:20004**

— *see also* **Brown, Cynthia; et al., 90k:20005**

Delgado, Alberto L. *see* **Chermak, Andrew, 90c:20001**

Deza, M. *see* **Cameron, Peter J.; et al., 90f:20004**

Finkelstein, Larry *see* **Brown, Cynthia; et al., 90j:20003; Cooperman, Gene; et al., 90j:20004** *and* **Brown, Cynthia; et al., 90k:20005**

Frankl, Peter *see* **Cameron, Peter J.; et al., 90f:20004**

Guralnick, R. *see* **Aschbacher, Michael, 90a:20006**

Kopylova, T. I. Minimal transitive permutation groups of finite degree. (Russian. English summary) **90m:20002**

Liulevicius, Arunas A reciprocity law for symmetric products of G-sets. **90d:20005**

Purdom, Paul Walton, Jr. *see* **Brown, Cynthia; et al., 90j:20003** *and* **Cooperman, Gene; et al., 90j:20004**

Quattrocchi, Pasquale Planar permutation sets. (Italian. English summary) **90c:20002**

Sigrist, François Le théorème de Burnside sur le comptage des orbites et quelques applications. [The Burnside theorem for counting orbits, and some applications] **90m:20003**

Items with secondary classifications in 20B05

Kovacs, L. G. Wreath decompositions of finite permutation groups. **90j:20006**

Laue, Reinhard Eine konstruktive Version des Lemmas von Burnside. [A constructive version of Burnside's lemma] **90d:20007**

Massias, Jean-Pierre (*with* Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. **90e:11139**

Mnukhin, V. B. Reconstruction of disconnected k-orbits of a permutation group. (Russian) **90k:05109**

Nicolas, Jean-Louis *see* **Massias, Jean-Pierre; et al., 90e:11139**

Robin, Guy *see* **Massias, Jean-Pierre; et al., 90e:11139**

Schmutz, Eric Proof of a conjecture of Erdős and Turán. **90d:11111**

Tambour, Torbjörn A theorem of Molien type in combinatorics. **90a:05014**

Zagaglia Salvi, N. On the solutions of a matrix equation. (Italian summary) **90g:15027**

20B07 General theory for infinite groups

Adeleke, S. A. Embeddings of infinite permutation groups in sharp, highly transitive, and homogeneous groups. **90e:20003**

Läuchli, Hans (*with* Neumann, Peter M.) On linearly ordered sets and permutation groups of countable degree. **90a:20007**

Neumann, Peter M. *see* **Läuchli, Hans, 90a:20007**

Items with secondary classifications in 20B07

Bonisoli, Arrigo Planar permutation groups. **90d:20004**

Shelah, Saharon (*with* Thomas, Simon) Homogeneity of infinite permutation groups. **90g:03051**

Thomas, Simon *see* **Shelah, Saharon, 90g:03051**

20B10 Characterization theorems

Pankratova, I. Ė. Strongly transitive representations of finite groups. (Ukrainian. Russian summary) **90j:20005**

20B15 Uniprimitive groups

Fomin, A. N. A remark on finite primitive permutation groups. (Russian) **90c:20003**

Kovacs, L. G. Wreath decompositions of finite permutation groups. **90j:20006**

— Primitive subgroups of wreath products in product action. **90a:20008**

Soomro, Khuda Dino Uniprimitive groups of degree 120. **90e:20004**

Items with secondary classifications in 20B15

Mazurov, Viktor Danilovich (*with* Mazurova, N. P.) The minimal permutation representation of the Thompson group. (Russian) **90i:20019**

Mazurova, N. P. *see* **Mazurov, Viktor Danilovich, 90i:20019**

Praeger, Cheryl E. The inclusion problem for finite primitive permutation groups. **90j:20009**

20B20 Multiply transitive finite groups

Faina, Giorgio (*with* Korchmáros, Gábor) On sharply 3-transitive permutation sets. **90i:20004**

Korchmáros, Gábor *see* **Faina, Giorgio, 90i:20004**

Items with secondary classifications in 20B20

Barlotti, Adriano (*with* Strambach, Karl) The geometry of double loops. **90b:51019**

Delandtsheer, Anne (*with* Doyen, Jean) Most block-transitive t-designs are point-primitive. **90d:05034**

Doyen, Jean *see* **Delandtsheer, Anne, 90d:05034**

Kopylova, T. I. Minimal transitive permutation groups of finite degree. (Russian. English summary) **90m:20002**

Matsuhisa, Takashi (*with* Yamaki, Hiroyoshi) A class of finite groups admitting certain sharp characters. II. **90m:20014**

Podufalov, N. D. (γ, γ)-transitive finite projective planes. (Russian) **90g:51006**

Strambach, Karl *see* **Barlotti, Adriano, 90b:51019**

Yamaki, Hiroyoshi *see* **Matsuhisa, Takashi, 90m:20014**

20B22 Multiply transitive infinite groups

Truss, J. K. Infinite permutation groups. I. Products of conjugacy classes. **90c:20004**

— Infinite permutation groups. II. Subgroups of small index. **90c:20005**

— The group of almost automorphisms of the countable universal graph. **90d:20006**

Yoshizawa, Mitsuo On multiply transitive locally finite permutation groups. **90j:20007**

Items with secondary classifications in 20B22

Cameron, Peter J. Groups of order-automorphisms of the rationals with prescribed scale type. **90h:20007**

Droste, Manfred (*with* Giraudet, Michèle) Embeddings into simple lattice-ordered groups with different first order theories. **90j:06029**

Giraudet, Michèle *see* **Droste, Manfred, 90j:06029**

Moszner, Zenon Une généralisation d'un résultat de J. Aczél et M. Hosszú sur l'équation de translation. [Generalization of a result of J. Aczél and M. Hosszú concerning the translation equation] **90e:39014**

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51–XX]

Biliotti, Mauro (*with* Korchmáros, Gábor) Collineation groups preserving a unital of a projective plane of odd order. **90i:20005**

von Bon, John (*with* Cohen, Arjeh M.) Linear groups and distance-transitive graphs. **90h:20006**

Camina, Alan (*with* Siemons, Johannes) Intertwining automorphisms in finite incidence structures. **90b:20003**

Cohen, Arjeh M. *see* **von Bon, John, 90h:20006**

Curtis, R. T. Geometric interpretations of the "natural" generators of the Mathieu groups. **90j:20008**

Delgado, Alberto L. (*with* Weiss, Richard Mark) On certain coverings of generalized polygons. **90b:20004**

Korchmáros, Gábor *see* **Biliotti, Mauro, 90i:20005**

Laue, Reinhard Eine konstruktive Version des Lemmas von Burnside. [A constructive version of Burnside's lemma] **90d:20007**

Ostrom, T. G. Correction to: "Two-groups on finite translation planes" [Arch. Math. (Basel) 47 (1986), no. 6, 568–572; MR 87m:20012]. **90k:20006**

Rylands, L. J. (*with* Taylor, D. E.) Rubik's clock. (Not in MR)

Siemons, Johannes *see* **Camina, Alan, 90b:20003**
Taylor, D. E. *see* **Rylands, L. J.,** (Not in MR)
Wajima, Masayuki A note on the automorphism group of certain polyhedra. **90i:20006**
Weiss, Richard Mark *see* **Delgado, Alberto L., 90b:20004**
Zeitler, Herbert Über die Automorphismengruppen endlicher affiner und projektiver Räume. [On the automorphism groups of finite affine and projective spaces] **90b:20005**
Zelikovskiĭ, A. Z. The König problem for abelian permutation groups. (Russian. English summary) **90m:20004**

Items with secondary classifications in 20B25

Arasu, K. T. Singer groups of biplanes of order 25. **90m:05028**
Aschbacher, Michael (*with* Guralnick, R.) On abelian quotients of primitive groups. **90a:20006**
Atsumi, Tsuyoshi On an inequality of Ray-Chaudhuri and Wilson for t-designs with group action. **90f:05015**
— An elementary proof of Yoshida's inequality for block designs which admit automorphism groups. **90b:05020**
Bachmann, Otto Über projektive Ebenen, die fast fahnentransitiv sind. (English summary) [On projective planes which are almost flag transitive] **90d:51015**
Barker, G. P. Automorphism groups of algebras of triangular matrices. **90h:16032**
Basile, Alessandro (*with* Brutti, Paolo) Algebraic structure of the coordinates of a translation transversal design. (Italian) **90h:51006**
Biggs, Norman Girth and residual finiteness. **90c:05105**
Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]; Menichetti, Giampaolo) A structure theory for two-dimensional translation planes of order q^2 that admit collineation groups of order q^2. **90a:51006**
von Bon, John (*with* Cohen, Arjeh M.; Cuypers, Hans) Graphs related to Held's simple group. **90h:20019**
Brutti, Paolo *see* **Basile, Alessandro, 90h:51006**
Cameron, Peter J. Some sequences of integers. **90i:05011**
— (*with* Frankl, Peter; Kantor, W. M.) Intersecting families of finite sets and fixed-point-free 2-elements. **90c:05004**
Camina, Alan (*with* Di Martino, L.) Block designs on 196 points. **90g:05032**
— (*with* Siemons, Johannes) Block transitive automorphism groups of 2-$(v,k,1)$ block designs. **90e:05018**
Cheng, Ying (*with* Sloane, N. J. A.) Codes from symmetry groups, and a $[32,17,8]$ code. **90h:93026**
Cohen, Arjeh M. *see* **von Bon, John; et al., 90h:20019**
Conder, Marston (*with* Lorimer, Peter) Automorphism groups of symmetric graphs of valency 3. **90g:05097**
Cooperstein, Bruce N. A finite flag-transitive geometry of extended G_2-type. **90h:51009**
Cuypers, Hans *see* **von Bon, John; et al., 90h:20019**
Darafsheh, M. R. On commutative nonassociative algebras associated with a group of automorphisms of a 2-design. **90i:17004**
Delandtsheer, Anne Line-primitive automorphism groups of finite linear spaces. **90c:05021**
— (*with* Doyen, Jean) Most block-transitive t-designs are point-primitive. **90d:05034**
Di Martino, L. *see* **Camina, Alan, 90g:05032**
Doyen, Jean *see* **Delandtsheer, Anne, 90d:05034**
Dress, Andreas W. M. Towards a classification of transitive group actions on finite metric spaces. **90h:54034**
Frankl, Peter *see* **Cameron, Peter J.; et al., 90c:05004**
Gashkov, I. B. (*with* Sidel′nikov, V. M.) Codes that are connected with a group of linear-fractional transformations. **90d:11137**
Gjergji, Rexhep On symmetric block design $(145,64,28)$ with Frobenius group of order 203. (Serbo-Croatian summary) **90d:05035**
Gluck, David Hadamard difference sets in groups of order 64. **90e:05020**
Guralnick, R. *see* **Aschbacher, Michael, 90a:20006**
Harada, Koichiro (*with* Lang, Mong-Lung) Some elliptic curves arising from the Leech lattice. **90g:11072**
Hayden, John L. Elementary abelian Cartesian groups. **90d:20094**
Herzer, A Zu einem Satz von H. Lüneburg über verallgemeinerte André-Ebenen. [On a theorem of H. Lüneburg on generalized André planes] **90c:51006**
— (*with* Schulz, Ralph-Hardo) Some new (s,k,λ)-translation transversal designs with nonabelian translation group. **90d:05060**
Ihrig, Edwin C. The structure of the symmetry groups of perfect 1-factorizations of K_{2n}. **90j:05104**
Ito, Noboru Automorphism groups of DRADs. **90a:05025**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) A characterization of some spreads of order q^3 that admit GL$(2,q)$ as a collineation group. **90a:51007**
— *see also* **Biliotti, Mauro; et al., 90a:51006**
Johnson, Norman Lloyd[1] Semifield planes of characteristic p admitting p-primitive Baer collineations. **90h:51012**
— *see also* **Biliotti, Mauro; et al., 90a:51006** *and* **Jha, Vikram, 90a:51007**
Joshi, Vinod *see* **Narayana Rao, M. L.; et al., 90i:51012**
Kantor, W. M. *see* **Cameron, Peter J.; et al., 90c:05004**
Kegel, O. H. Automorphisms. **90a:20055**
Kennedy, John W. (*with* McKeon, K. A.; Palmer, Edgar M.; Robinson, Robert W.) Asymptotic number of symmetries in locally restricted trees. **90k:05013**
Key, J. D. (*with* Rostom, N. K. A.) A characterisation of some finite inversive planes. **90c:51009**
Kilmer, Dirk Über die Projektivitätengruppen von Semikörperebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] **90f:51011**
Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. **90i:20037**
Kuppuswamy Rao, K. *see* **Narayana Rao, M. L.; et al., 90i:51012**
Labelle, Jacques (*with* Yeh, Yeong Nan) The relation between Burnside rings and combinatorial species. **90c:05016**
Lang, Mong-Lung *see* **Harada, Koichiro, 90g:11072**
Lorimer, Peter *see* **Conder, Marston, 90g:05097**
Lozanov, Chavdar *see* **Russeva, Assia P., 90g:51017**
McKeon, K. A. *see* **Kennedy, John W.; et al., 90k:05013**
Menichetti, Giampaolo *see* **Biliotti, Mauro; et al., 90a:51006**
Mnukhin, V. B. Action of groups on lattices and the reconstruction problem. (Russian) **90a:06009**
Moorhouse, G. Eric PSL$(2,q)$ as a collineation group of projective planes of small order. **90h:51013**
Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. **90b:32053**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with 48 ideal points in a single orbit. **90i:51012**
— (*with* Satyanarayana, K.; Vithal Rao, G.) On a class of derived translation planes of square order. **90c:51008**
Palmer, Edgar M. *see* **Kennedy, John W.; et al., 90k:05013**
Praeger, Cheryl E. Inflations of graphs with large automorphism groups. I. **90d:05116**
— Highly arc transitive digraphs. **90m:05064**
— A note on group Latin squares. **90g:05052**
Prince, Alan R. The Hall-Janko group as a collineation group of an infinite projective plane. **90a:51004**
Robinson, Robert W. *see* **Kennedy, John W.; et al., 90k:05013**
Rostom, N. K. A. *see* **Key, J. D., 90c:51009**
Russeva, Assia P. (*with* Lozanov, Chavdar) On the geometry of a cyclic subgroup of the Suzuki group Sz(8). (Bulgarian summary) **90g:51017**
Satyanarayana, K. *see* **Narayana Rao, M. L.; et al., 90c:51008**
Schulz, Ralph-Hardo *see* **Herzer, A, 90d:05060**
Sidel′nikov, V. M. *see* **Gashkov, I. B., 90d:11137**
Siemons, Johannes *see* **Camina, Alan, 90e:05018**
Sloane, N. J. A. *see* **Cheng, Ying, 90h:93026**
Stroth, G. The nonexistence of certain Tits geometries with affine diagram. **90g:20028**
Vithal Rao, G. *see* **Narayana Rao, M. L.; et al., 90c:51008**
Yeh, Yeong Nan *see* **Labelle, Jacques, 90c:05016**

20B27 Infinite automorphism groups [see also 12F10]

Cameron, Peter J. Groups of order-automorphisms of the rationals with prescribed scale type. **90h:20007**
Droste, Manfred (*with* Holland, W. C.; Macpherson, Dugald) Automorphism groups of infinite semilinear orders. I, II. **90b:20006**
Garit, V. P. (*with* Zamorzaev, A. M.) On a subgroup of finite index in an n-dimensional discrete group of affine transformations. (Russian) **90c:20006**
Holland, W. C. *see* **Droste, Manfred; et al., 90b:20006**
Macpherson, Dugald *see* **Droste, Manfred; et al., 90b:20006**
Schlichting, Günter On the periodicity of group operations. **90d:20008**
Zamorzaev, A. M. *see* **Garit, V. P., 90c:20006**

Items with secondary classifications in 20B27

Alpers, Burkhard Zum Transitivitätsverhalten metrischer Kollineationsgruppen. (English summary) [On the transitivity behavior of metric collineation groups] **90i:51017**
Biggs, Norman Confluence of some presentations associated with graphs. **90d:20058**
Bredikhin, D. A. On the simultaneous characterization of automorphism groups and congruence lattices of universal algebras. (Russian) (*see* **90d:00034**)
Coleman, A. J. Killing and the Coxeter transformation of Kac-Moody algebras. **90h:17040**
Droste, Manfred k-homogeneous relations and tournaments. **90m:03072**
Hodges, Wilfrid Categoricity and permutation groups. **90j:03064**
Kemmerich, Susanne (*with* Richter, M. M.) Bemerkungen über die Automorphismengruppe von homogenen Boole'schen Algebren. [Remarks on the automorphism group of homogeneous Boolean algebras] **90e:06027**
Marmazeev, V. I. The group of automorphisms of the lattice of convex sublattices. (Russian. English summary) **90f:06018**
Mäurer, Helmut (*with* Siemon, H.) On the automorphisms of normal subgroups of the collineation group of affine spaces. **90a:51003**
Monk, J. Donald Automorphism groups. (*see* **90k:06003**)
Nebbia, Claudio Amenability and Kunze-Stein property for groups acting on a tree. **90f:43004**
Richter, M. M. *see* **Kemmerich, Susanne, 90e:06027**
Roitman, Judy Superatomic Boolean algebras. (*see* **90k:06004**)
Rubin, Matatyahu On the reconstruction of Boolean algebras from their automorphism groups. (*see* **90k:06003**)
— *see also* **Štěpánek, Petr,** (**90k:06003**)
Seifter, Norbert Nilpotent groups and transitive graphs. **90a:05096**
Siemon, H. *see* **Mäurer, Helmut, 90a:51003**
Stark, Christopher W. Convexity and root closure in negatively curved manifolds. **90h:57040**
Štěpánek, Petr Embeddings and automorphisms. (*see* **90k:06003**)
— (*with* Rubin, Matatyahu) Homogeneous Boolean algebras. (*see* **90k:06003**)
Sushchanskiĭ, V. I. Standard subgroups of the isometry group of the metric space of p-adic integers. (Ukrainian. Russian summary) **90k:11160**
Truss, J. K. The group of almost automorphisms of the countable universal graph. **90d:20006**
Wagoner, J. B. Markov partitions and K_2. **90d:28022**

20B30 Symmetric groups, general

Hsu, D. Frank (*with* Lyuu, Yuh-Dauh) Lower bounds on sphere partition in symmetric groups. **90e:20005**
Katriel, Jacob (*with* Paldus, J.) Explicit expression for the product of the class of transpositions with an arbitrary class of the symmetric group. **90k:20007**
Lyuu, Yuh-Dauh *see* **Hsu, D. Frank, 90e:20005**
Moran, Gadi Products of involution classes in infinite symmetric groups. **90c:20007**
Paldus, J. *see* **Katriel, Jacob, 90k:20007**

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20C12 Integral representations of infinite groups

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20C20 Modular representations and characters

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Andrews, Robert C. Carlson varieties and Chouinard's theorem. **90a:20020**

Benson, David John Projective modules for the group of twenty-seven lines on a cubic surface. **90d:20022**

Bessenrodt, Christine The isomorphism type of an abelian defect group of a block is determined by its modules. **90f:20014**

— Monomial representations and generalizations. **90m:20015**

Blau, H. I. (*with* Michler, G. O.) Modular representation theory of finite groups with T.I. Sylow p-subgroups. **90j:20019**

Dlab, Vlastimil (*with* Ringel, Claus Michael) On modular representations of A_4. **90i:20008**

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Holmes, Randall R. Projective characters of finite Chevalley groups. **90j:20020**

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Knörr, Reinhard (*with* Robinson, Geoffrey R.) Some remarks on a conjecture of Alperin. **90k:20020**

Külshammer, Burkhard An analogue of the p-regular core for p-blocks of finite groups. **90d:20025**

— Blocks, solvable permutation groups, and Landau's theorem. **90d:20026**

Lafuente, Julio On the second Loewy term of projectives of a group algebra. **90k:20021**

Linckelmann, Markus Modules in the sources of Green's exact sequences for cyclic blocks. **90i:20009**

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— (*with* Wolf, Thomas R.) The q-parts of degrees of Brauer characters of solvable groups. **90f:20015**

Michler, G. O. ★ Ring theoretical and computational methods in group representation theory. **90h:20012**

— *see also* **Blau, H. I., 90j:20019**

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Olsson, Jørn B. On the p-blocks of symmetric and alternating groups and their covering groups. **90k:20022**

Pittaluga, Marilena (*with* Strickland, Elisabetta) A computer oriented algorithm for the determination of the dimension and character of a modular irreducible $\mathrm{SL}(n, K)$-module. **90d:20027**

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— π-blocks and isometries. **90a:20022**

— (*with* Staszewski, R.) On the representation theory of π-separable groups. **90a:20023**

— (*with* Staszewski, R.) On π-subpairs and the third main theorem for π-blocks. **90i:20010**

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Ronan, M. A. (*with* Smith, Stephen D.) Computation of 2-modular sheaves and representations for $L_4(2)$, A_7, $3S_6$, and M_{24}. **90c:20020**

Shamash, Josephine Blocks and Brauer trees in the groups $G_2(q)$ for primes dividing $q \pm 1$. **90j:20021**

— Brauer trees for blocks of cyclic defect in the groups $G_2(q)$ for primes dividing $q^2 \pm q + 1$. **90m:20016**

Sin, Peter The Green ring and modular representations of finite groups of Lie type. **90d:20028**

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Strunkov, S. P. Blocks of defect zero in finite groups. **90h:20013**

Tiedt, Gunter Blöcke von Gruppen der p-Länge 1. [Blocks of groups of p-length 1] **90f:20016**

Usami, Yoko On p-blocks with abelian defect groups and inertial index 2 or 3. II. **90k:20023**

Willems, W. Representations of certain group extensions. (*see* **90m:11193**)

Wolf, Thomas R. *see* **Manz, O., 90f:20015**

Ye, Jia Chen Cartan invariants of finite groups of Lie type. I. **90j:20022**

Zhang, Ji Ping On linear groups over finite fields. **90m:20017**

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Broué, Michel (*with* Michel, Jean) Blocs et séries de Lusztig dans un groupe réductif fini. [Blocks and Lusztig series in a finite reductive group] **90b:20037**

Fong, Paul (*with* Srinivasan, Bhama) The blocks of finite classical groups. **90f:20065**

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Kawata, Shigeto The Green correspondence and Auslander-Reiten sequences. **90e:16047**

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Uno, Katsuhiro Relative projectivity and extendibility of Auslander-Reiten sequences. **90d:16036**

— Auslander-Reiten sequences for certain group modules. **90f:16044**

Vignéras, Marie-France Représentations modulaires des groupes localement profinis. [Modular representations of locally profinite groups] **90f:22022**

Völklein, Helmut *see* **Fried, Michael D., 90j:14018**

Zalesskiĭ, A. E. Eigenvalues of matrices of complex representations of finite groups of Lie type. **90d:20084**

20C25 Projective representations and multipliers

Bean, M. (*with* Hoffman, Peter N.) Zelevinski algebras related to projective representations. **90c:20021**

Higgs, R. J. Projective characters of degree one and the inflation-restriction sequence. **90f:20017**

Hoffman, Peter N. (*with* Humphreys, J. F.) Projective representations of generalized symmetric groups using PSH-algebras. **90j:20023**

— (*with* Humphreys, J. F.) Real projective representations of finite groups. **90k:20024**

— *see also* **Bean, M., 90c:20021**

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Józefiak, Tadeusz Characters of projective representations of symmetric groups. **90f:20018**

Nelis, P. (*with* Van Oystaeyen, F.) Ray symmetry in projective representations and subgroups of the Brauer group. **90j:16009**

Stembridge, John R. Shifted tableaux and the projective representations of symmetric groups. **90k:20026**

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Yamane, Hiroyuki Irreducible projective modules of the Hecke algebras of a finite Coxeter group. **90k:20070**

20C30 Representations of finite symmetric groups and other special finite groups

Balasubramanian, K. *see* **Liu, Xiaoyu, 90e:20012**

Barvinok, A. I. (*with* Vershik, A. M.) Convex hulls of orbits of representations of finite groups, and combinatorial optimization. **90a:20024**

Brison, Owen J. Alternating groups and a conjecture about rational valued characters. **90e:20011**

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Doeraene, J. P. (*with* Iommi Amunátegui, G.) À propos de la réduction du groupe alterné $A_n \to A_{n-1}$. [On the reduction of the alternating group $A_n \to A_{n-1}$] **90m:20018**

Fonseca, Amélia On the multilinearity partition of an irreducible character. II. **90i:20012**

Garsia, A. M. (*with* Wachs, M. L.) Combinatorial aspects of skew representations of the symmetric group. **90b:20013**

Gow, R. Unimodular integral lattices associated with the basic spin representations of $2A_n$ and $2S_n$. **90d:20029**

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Ochoa, Gustavo Outer plethysm, Burnside ring and β-rings. **90a:20025**

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Goupil, Alain On products of conjugacy classes of the symmetric group. **90j:20010**

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20C32 Representations of infinite symmetric groups and other special infinite groups

Nazarov, M. L. Factor representations of the infinite spin-symmetric group. **90a:20027**

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Hall, J. I. Infinite alternating groups as finitary linear transformation groups. **90a:20079**

20C35 Applications to physics

Chechin, G. M. (*with* Koptsik, V. A.) Relation between multidimensional representations of the Fedorov groups and the groups of color symmetry. **90f:20019**

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20C99 None of the above, but in this section

Benyash-Krivets, V. V. The transcendence basis of the field of functions of the variety of characters of a free group. (Russian. English summary) **90j:20026**

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20Dxx Abstract finite groups

20D05 Classification of simple and nonsolvable groups

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Fomin, A. N. A remark on finite simple nonabelian groups. (Russian) (*see* **90h:20005**)

Huang, Jian Hua (*with* Li, Hui Ling) Buildings, amalgams and incidence geometries. I. BN-pairs and amalgams. (Chinese. English summary) **90k:20028**

Kondrat′ev, Anatoliĭ Semenovich On prime graph components of finite simple groups. (Russian) **90h:20018**

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20D06 Simple groups: alternating and classical groups [see also 20Gxx, 22Exx]

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— *see also* **Dalla Volta, F., 90j:20029**

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20D10 Solvable groups, theory of formations, π-length, ranks, factorable groups, p-groups [see also 20F17]

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20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

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— (*with* Bhattacharya, Prabir) On theta pairs for a maximal subgroup. **90k:20040**

Pérez-Ramos, M. D. Stability with respect to a Fitting class. **90m:20023**

Stellmacher, Bernd An analogue to Glauberman's ZJ-theorem. **90k:20045**

Turull, Alexandre Groups of automorphisms and centralizers. **90k:20041**

Wang, E Fang Equicentralizer subgroups of sporadic simple groups. **90a:20030**

20D30 Series and lattices of subgroups

Antonov, Vladimir Alekseevich Finite groups with a modular lattice of centralizers. (Russian) **90c:20030**

Asaad, M. Finite groups some of whose n-maximal subgroups are normal. **90g:20029**

Ballester-Bolinches, A. (*with* Ezquerro Marín, Luis Miguel) A note on the Jordan-Hölder theorem. **90e:20021**

Brandl, Rolf Groups whose lattices of normal subgroups are distributive. **90d:20041**

Ezquerro Marín, Luis Miguel *see* **Ballester-Bolinches, A., 90e:20021**

Hawkes, Trevor (*with* Isaacs, I. M.; Özaydin, M.) On the Möbius function of a finite group. **90k:20046**

Holmes, Charles S. Automorphisms of the lattice of subgroups of $Z_{p^m} \times Z_{p^n}$. **90a:20039**

Isaacs, I. M. *see* **Hawkes, Trevor; et al., 90k:20046**

Lafuente, Julio Maximal subgroups and the Jordan-Hölder theorem. **90a:20040**

Lucchini, Andrea On *p*-groups whose L-automorphism group is transitive on the atoms. **90b:20020**

Özaydin, M. *see* **Hawkes, Trevor; et al., 90k:20046**

Zimmermann, Irene Submodular subgroups in finite groups. **90h:20028**

Items with secondary classifications in 20D30

Khazal, Reyadh R. A note on maximal subgroups in finite groups. **90j:20045**

Kurzweil, Hans Die Praefrattinigruppe im Intervall eines Untergruppenverbandes. [The pre-Frattini group in the interval subgroup lattice] **90i:20022**

Zacher, Giovanni Current knowledge about certain aspects of the lattice of subgroups of a group. (Italian) **90g:20036**

Zimmermann, Irene On a theorem of Deskins. **90c:20028**

20D35 Subnormal subgroups

Bryce, R. A. A note on subnormal defect in finite soluble groups. **90d:20042**

Csörgő, Piroska On π-t groups. **90e:20022**

Heineken, Hermann Hypernormalizing groups. **90j:20046**

Maier, Rudolf Zur Vertauschbarkeit und Subnormalität von Untergruppen. [On the permutability and subnormality of subgroups] **90k:20047**

Items with secondary classifications in 20D35

Kamornikov, S. F. Permutation subnormal subgroups of finite groups. (Russian. English summary) **90k:20039**

Wang, Jing^2 A special class of normal subgroups. (Chinese. English summary) **90i:20027**

20D40 Products of subgroups

Arad, Zvi Determination of a finite group by certain subgroups and a solution to Szép's conjecture. **90f:20033**

Chertok, V. D. On the product of two *p*-decomposable groups. (Russian) **90f:20034**

Hering, Christoph On Szép's conjecture concerning factorizations of finite groups. **90c:20031**

Hermann, Péter Z. On π-quasinormal subgroups in finite groups. **90i:20028**

Jiménez, Daniel Classification of the self-normalizing subgroups of the one-dimensional finite affine group $P(K)$. (Spanish) **90h:20029**

Kokhan, N. G. *see* **Zhuk, A. N., 90f:20035**

Liebeck, Martin W. (*with* Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. **90k:20048**

Mozharovskaya, L. S. On the structure of finite c-factorizable groups. (Russian) **90b:20021**

Praeger, Cheryl E. *see* **Liebeck, Martin W.; et al., 90k:20048**

Rosenbaum, Kurt Die Untergruppen von halbdirekten Produkten. [The subgroups of semidirect products] **90c:20032**

Saxl, Jan *see* **Liebeck, Martin W.; et al., 90k:20048**

Tyutyanov, V. N. The product of two finite groups with a maximal nilpotent intersection. **90d:20043**
Walls, Gary L. Nonsimple groups which are the product of simple groups. **90k:20049**
Zhuk, A. N. (*with* Kokhan, N. G.) Normal complements to subgroups in finite groups. (Russian. English summary) **90f:20035**

Items with secondary classifications in 20D40

Guo, Xiu Yun Normal complementary subgroups in finite groups. (Chinese) **90j:20044**
Tushev, A. V. A class of periodic groups with a complemented locally nilpotent coradical. (Russian) **90k:20061**

20D45 Automorphisms

Abbasi, G. Q. Central products of some metabelian p-groups of maximal class. **90b:20022**
Deaconescu, Marian (*with* MacHale, Desmond) Odd order groups with an automorphism cubing many elements. **90a:20041**
Doyle, John Solubility of finite groups admitting a certain fixed-point-free group of automorphisms. **90j:20047**
Gilotti, Anna Luisa Finite groups with an automorphism of prime order fixing the Frattini subgroup of a Sylow p-subgroup. (Italian summary) **90g:20030**
MacHale, Desmond *see* **Deaconescu, Marian, 90a:20041**
Pérez-Ramos, M. D. A p-stable action of the automorphism group of a group. **90b:20023**
Pettet, Martin R. On inner automorphisms of finite groups. **90a:20042**
Zimmerman, Jay Groups with automorphisms squaring most elements. **90k:20050**

Items with secondary classifications in 20D45

Curran, M. J. Automorphisms of certain p-groups (p odd). **90c:20029**
Exarchakos, Theodoros On p-groups of small order. **90i:20024**
Holmes, Charles S. Automorphisms of the lattice of subgroups of $Z_{p^m} \times Z_{p^n}$. **90a:20039**
Lucchini, Andrea On p-groups whose L-automorphism group is transitive on the atoms. **90b:20020**
Pettet, Martin R. Central automorphisms of periodic groups. **90a:20057**

20D50 Covering of subgroups

Items with secondary classifications in 20D50

Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. **90d:20044**
Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 90d:20044**
Fraenkel, A. S. *see* **Berger, Marc A.; et al., 90d:20044**
Pannone, Virgilio On the partitions of finite p-groups. (Italian. English summary) **90e:20017**

20D60 Arithmetic and combinatorial problems

Anderson, B. A. S_5, A_5 and all nonabelian groups of order 32 are sequenceable. **90a:20043**
— (*with* Leonard, P. A.) Symmetric sequencings of finite Hamiltonian groups with a unique element of order 2. **90a:20045**
— Sequencings of dicyclic groups. II. **90a:20044**
Bannai, Eiichi (*with* Deza, M.; Frankl, Peter; Kim, A. C.; Kiyota, M.) On the number of elements which are not nth powers in finite groups. **90j:20048**
Berger, Marc A. (*with* Felzenbaum, Alexander; Fraenkel, A. S.) Mycielski-Sierpiński conjecture and Korec-Znám result. **90d:20044**
Dénes, J. (*with* Keedwell, A. D.) A new conjecture concerning admissibility of groups. **90c:20033**
Deza, M. *see* **Bannai, Eiichi; et al., 90j:20048**
Evans, Anthony B. Orthomorphisms of groups. **90j:20049**
Felzenbaum, Alexander *see* **Berger, Marc A.; et al., 90d:20044**
Fraenkel, A. S. *see* **Berger, Marc A.; et al., 90d:20044**
Frankl, Peter *see* **Bannai, Eiichi; et al., 90j:20048**
Hamidoune, Y. O. Factorisations courtes dans un groupe fini. (English summary) [Short factorizations in a finite group] **90g:20031**
Holt, Derek F. Enumerating perfect groups. **90d:20045**
Keedwell, A. D. *see* **Dénes, J., 90c:20033**
Kim, A. C. *see* **Bannai, Eiichi; et al., 90j:20048**
Kiyota, M. *see* **Bannai, Eiichi; et al., 90j:20048**
Larrea, Ma. Concepción *see* **Vera López, Antonio, 90a:20046**
Leonard, P. A. *see* **Anderson, B. A., 90a:20045**
Neumann, Peter M. Two combinatorial problems in group theory. **90f:20036**
Scapellato, Raffaele Finite groups with the same number of elements of each order. (Italian summary) **90g:20032**
Thévenaz, Jacques A characterization of cyclic groups. **90h:20030**
Vera López, Antonio (*with* Larrea, Ma. Concepción) On the number of conjugacy classes in a finite group. II. **90a:20046**

Items with secondary classifications in 20D60

Arasu, K. T. (*with* Jungnickel, Dieter) Affine difference sets of even order. **90k:05035**
Bergmann, Horst Eine Bemerkung zu den zyklischen Gruppen. [A remark on cyclic groups] **90j:20002**
Evans, Anthony B. Orthomorphisms of $GF(q)^+$. **90c:05039**
Gluck, David Hadamard difference sets in groups of order 64. **90e:05020**
Harinath, K. S. A note on the number of conjugacy classes. **90g:20018**
Imrich, W. (*with* Seifter, Norbert) A note on the growth of transitive graphs. **90a:05095**
Jungnickel, Dieter (*with* Pott, Alexander) Computational nonexistence results for abelian affine difference sets. **90g:05045**
— A new family of relative difference sets. **90k:05037**
— *see also* **Arasu, K. T., 90k:05035**
Kopilovich, L. E. Difference sets in noncyclic abelian groups. **90g:05047**
de Launey, Warwick Square GBRDs over nonabelian groups. **90h:05033**
Massias, Jean-Pierre (*with* Nicolas, Jean-Louis; Robin, Guy) Effective bounds for the maximal order of an element in the symmetric group. **90e:11139**
Nicolas, Jean-Louis *see* **Massias, Jean-Pierre; et al., 90e:11139**
Pott, Alexander *see* **Jungnickel, Dieter, 90g:05045**
Robin, Guy *see* **Massias, Jean-Pierre; et al., 90e:11139**
Robison, Arch D. An improved rewriting-number algorithm. **90m:68099**
Schmutz, Eric Proof of a conjecture of Erdős and Turán. **90d:11111**
Seifter, Norbert *see* **Imrich, W., 90a:05095**
White, Arthur T. Ringing the cosets. **90a:20010**
— Ringing the cosets. II. **90a:20011**

20D99 None of the above, but in this section

James, Rodney (*with* Newman, M. F.; O'Brien, E. A.) The groups of order 128. **90j:20050**
Khazal, Reyadh R. (*with* Mukherjee, N. P.) A note on influence of subgroup restrictions in finite group structure. **90j:20051**
Khuranova, I. Kh. (*with* Shidov, L. I.) Lagrangian groups. (Russian) (*see* **90h:20005**)
Miller, Andy A group theoretic characterization of the 2-dimensional spherical groups. **90j:20052**
Mukherjee, N. P. *see* **Khazal, Reyadh R., 90j:20051**
Newman, M. F. *see* **James, Rodney; et al., 90j:20050**
O'Brien, E. A. *see* **James, Rodney; et al., 90j:20050**
Sangróniz, J. *see* **Vera López, Antonio, 90d:20046**
Shidov, L. I. *see* **Khuranova, I. Kh., (90h:20005)**
Shmakova, M. M. *see* **Unachev, Kh. Ya., (90h:20005)**
Unachev, Kh. Ya. (*with* Shmakova, M. M.) Independent subgroups of finite groups. (Russian) (*see* **90h:20005**)
Vera López, Antonio (*with* Sangróniz, J.) Classification of all relative holomorphs of an abelian group of type $C_4 \times C_4$. (Spanish. English summary) **90d:20046**
Zhurtov, A. Kh. Finite groups with independent Shmidt subgroups. (Russian) (*see* **90h:20005**)

Items with secondary classifications in 20D99

Arad, Zvi Survey on table algebras and applications to finite group theory. **90j:20013**
Gromadzki, Grzegorz Maximal groups of automorphisms of compact Riemann surfaces in various classes of finite groups. (Spanish summary) **90d:30120**
Kovacs, L. G. Free groups in a dihedral variety. **90i:20030**
Mel'nikov, Yu. B. The structure of supercopiable p-groups. **90h:20024**

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Abdel-Gawad, A. G. A. E. On automorphisms of free groups. **90c:20034**
Alperin, Roger C. (*with* Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. **90m:20029**
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) On the rank of quadratic equations in free groups. **90h:20031**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90h:20031**
Faĭziev, V. A. Pseudocharacters on free groups and on some group constructions. **90a:20047**
Hoare, A. H. M. On automorphisms of free groups. I. **90g:20033**
Imrich, W. (*with* Turner, E. C.) Endomorphisms of free groups and their fixed points. **90f:20037**
Kapur, Deepak (*with* Zhang, Hantao) Proving equivalence of different axiomatizations of free groups. **90a:20048**
Khanfar, Mohammad I. Lengths in semifree groups. **90j:20053**
Krstić, Sava On graphs representing automorphisms of free groups. **90b:20024**
Peterson, Brian L. *see* **Alperin, Roger C., 90m:20029**
Shafarevich, I. R. Factors of decreasing central series. (Russian) **90e:20023**
Turner, E. C. *see* **Imrich, W., 90f:20037**
Zhang, Hantao *see* **Kapur, Deepak, 90a:20048**

Items with secondary classifications in 20E05

Aomoto, K. Algebraic equations for Green kernel on a free group. **90a:58161**
Benyash-Krivets, V. V. The transcendence basis of the field of functions of the variety of characters of a free group. (Russian. English summary) **90j:20026**
Bryant, Roger M. (*with* Gupta, Chander Kanta) Automorphism groups of free nilpotent groups. **90e:20034**
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) Solutions of equations in free groups. **90a:20067**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90a:20067**
Gupta, Chander Kanta *see* **Bryant, Roger M., 90e:20034**
Higman, Graham Some countably free groups. **90a:20072**
Kovacs, L. G. Free groups in a dihedral variety. **90i:20030**
Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. **90i:20037**
Macedońska, Olga The semigroup of endomorphisms of the free group of infinite rank. **90e:20059**
McCool, James Some remarks on IA automorphisms of free groups. **90d:20057**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Elementary equivalence of free operator groups with a length function and with a finitely generated group of operators. (Russian) **90a:03050**
Picardello, Massimo A. (*with* Pytlik, Tadeusz) Norms of free operators. **90b:47016**
Pytlik, Tadeusz *see* **Picardello, Massimo A., 90b:47016**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 90a:03050**
Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. II. **90j:20069**

Shalashov, V. K. An equation in a free group. **90a:20078**
White, Samuel The group generated by $x \mapsto x + 1$ and $x \mapsto x^p$ is free. **90a:12014**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Allenby, R. B. J. T. (*with* Tang, C. Y.) On the residual finiteness of certain polygonal products. **90e:20024**
Andreadakis, S. (*with* Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. **90j:20054**
Bergman, George M. Embedding arbitrary algebras in groups. **90a:20049**
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. **90h:20032**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90h:20032**
Howie, James The quotient of a free product of groups by a single high-powered relator. I. Pictures. Fifth and higher powers. **90j:20055**
Huang, Jian Hua (*with* Ma, Ji Xin; Stellmacher, Bernd) Amalgams of rank 2 in characteristic 3 involving $L_2(5)$. **90j:20056**
Koay, H. L. *see* **Wong, P. C., 90h:20033**
Krstić, Sava A uniqueness decomposition theorem for actions of finite groups on free groups. **90m:20030**
Lipschutz, Seymour Note on generalizing pregroups. **90j:20057**
Ma, Ji Xin *see* **Huang, Jian Hua; et al., 90j:20056**
Raptis, E. (*with* Varsos, D.) Residual properties of HNN-extensions with base group an abelian group. **90g:20034**
— *see also* **Andreadakis, S.; et al., 90j:20054**
Stellmacher, Bernd *see* **Huang, Jian Hua; et al., 90j:20056**
Tang, C. Y. *see* **Allenby, R. B. J. T., 90e:20024**
Tishin, Yu. V. Groups that are indecomposable into free constructions. (Russian. English summary) **90m:20031**
Varsos, D. *see* **Raptis, E., 90g:20034** *and* **Andreadakis, S.; et al., 90j:20054**
Wilson, John S. A note on products of abelian by finite groups. **90j:20058**
Wong, P. C. (*with* Koay, H. L.) Generalised free products of isomorphic potent groups. **90h:20033**

Items with secondary classifications in 20E06

Baumslag, Gilbert (*with* Shalen, Peter B.) Groups whose three-generator subgroups are free. **90h:20041**
Bergman, Clifford (*with* McKenzie, R. N.) On the relationship of AP, RS and CEP in congruence modular varieties. II. **90f:08006**
Edjvet, M. A Magnus theorem for free products of locally indicable groups. **90k:20055**
Hannebauer, Torsten Relation modules of amalgamated free products and HNN extensions. **90m:20059**
Herfort, W. (*with* Ribes, Luis) Solvable subgroups of free products of profinite groups. **90b:20026**
Horadam, K. J. The conjugacy problem for finite graph products. **90c:20042**
Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. **90e:57024**
Lichtman, Alexander I. (*with* Sehgal, Sudarshan K.) The elements of finite order in the group of units of group rings of free products of groups. **90k:20012**
Lockhart, Jody Meyer An HNN-extension with cyclic associated subgroups and with unsolvable conjugacy problem. **90d:03086**
Matumoto, Takao Any group is represented by an outerautomorphism group. **90g:20051**
McKenzie, R. N. *see* **Bergman, Clifford, 90f:08006**
Niemenmaa, M. (*with* Rosenberger, Gerhard) On the infinity of the Lonergan-Hosack presentation. **90i:20034**
Renz, Burkhardt Geometric invariants and HNN-extensions. **90a:20075**
Ribes, Luis *see* **Herfort, W., 90b:20026**
Rosenberger, Gerhard *see* **Niemenmaa, M., 90i:20034**
Sehgal, Sudarshan K. *see* **Lichtman, Alexander I., 90k:20012**
Shalen, Peter B. *see* **Baumslag, Gilbert, 90h:20041**

20E07 Subgroup theorems

Brandl, Rolf (*with* Linnell, P. A.) Character degrees and CLT-groups. **90c:20035**
Dyadchenko, G. G. (*with* Shokuev, V. N.) Some tests for the normality of subgroups. (Russian) (*see* **90h:20005**)
Hekster, N. S. (*with* Lenstra, H. W., Jr.) Groups with finitely many nonnormal subgroups. **90j:20059**
Ivanov, S. V. Groups with polynormal and weakly abnormal subgroups. (Russian) (*see* **90h:20005**)
Kappe, Luise-Charlotte On power margins. **90h:20034**
Kil, Yong Chon Nonabelian groups in which the intersection of any two maximal abelian subgroups is the centre. (Korean. English summary) **90j:20060**
Lenstra, H. W., Jr. *see* **Hekster, N. S., 90j:20059**
Levishchenko, S. S. (*with* Semko, N. N.) Constructive description of finite nonsupersolvable groups all of whose 2-maximal subgroups are metacyclic. (Russian) **90f:20038**
Linnell, P. A. *see* **Brandl, Rolf, 90c:20035**
Mishchenko, B. I. Groups with some properties of complemented infinite subgroups. (Russian) **90b:20025**
Ol′shanskiĭ, A. Yu. Efficient embeddings of countable groups. (Russian) **90m:20032**
Otal, Javier (*with* Peña, Juan Manuel) Groups with minimal conditions related to finiteness properties on conjugacy classes. **90i:20029**
Peña, Juan Manuel *see* **Otal, Javier, 90i:20029**
Semko, N. N. *see* **Levishchenko, S. S., 90f:20038**
Shokuev, V. N. *see* **Dyadchenko, G. G., (90h:20005)**
Shunkov, V. P. M_p groups with a regular handle. (Russian) **90f:20039**
Wang, Yan Ming Properties determined by two-generator subgroups. (Chinese. English summary) **90k:20051**

Items with secondary classifications in 20E07

Fine, Benjamin (*with* Howie, James; Rosenberger, Gerhard) Ree-Mendelsohn pairs in generalized triangle groups. **90a:20061**
Howie, James *see* **Fine, Benjamin; et al., 90a:20061**
Hu, Qing Ping Some remarks on universal algebras. II. (Chinese. English summary) **90i:08004**
Li, Shi Rong Finite nonsolvable groups with supersolvable second maximal $3d$-subgroups. (Chinese) **90d:20033**
Mõhres, Walter Torsionsgruppen, deren Untergruppen alle subnormal sind. (English summary) [Torsion groups all of whose subgroups are subnormal] **90i:20035**
Rosenbaum, Kurt Die Untergruppen von halbdirekten Produkten. [The subgroups of semidirect products] **90c:20032**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 90a:20061**
Shmakova, M. M. *see* **Unachev, Kh. Ya., (90h:20005)**
Truss, J. K. Infinite permutation groups. II. Subgroups of small index. **90c:20005**
Unachev, Kh. Ya. (*with* Shmakova, M. M.) Independent subgroups of finite groups. (Russian) (*see* **90h:20005**)

20E10 Quasivarieties and varieties of groups

Hekster, N. S. Varieties of groups and isologisms. **90a:20050**
Ivanov, S. V. P. Hall's conjecture on the finiteness of verbal subgroups. (Russian) **90j:20061**
Kovacs, L. G. Free groups in a dihedral variety. **90i:20030**
Vovsi, Samuel M. Critical multi-operator groups. **90c:20036**

Items with secondary classifications in 20E10

Aĭvazyan, S. V. A problem of A. I. Mal′tsev. **90c:20041**
Brandl, Rolf (*with* Kappe, Luise-Charlotte) On n-Bell groups. **90c:20048**
Endimioni, Gérard Conditions de nilpotence dans certaines variétés de groupes. (English summary) [Conditions for nilpotency in certain varieties of groups] **90m:20040**
Kappe, Luise-Charlotte *see* **Brandl, Rolf, 90c:20048**
Kharlampovich, O. G. The word problem in the variety $Z\mathfrak{N}_2\mathfrak{A}$. **90j:20073**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Sapir, M. V. (*with* Shevrin, L. N.) Residually small varieties of semigroups and groups. **90e:20054**
Shevrin, L. N. *see* **Sapir, M. V., 90e:20054**
Zubkov, A. N. The lattice of subvarieties of pro-p-groups has the power of the continuum. **90d:20049**

20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Casolo, Carlo Subgroups of finite index in generalized T-groups. **90a:20051**
— Soluble groups with finite Wielandt length. **90j:20062**
— Groups with finite conjugacy classes of subnormal subgroups. **90k:20052**
Celentani, Maria Rosaria (*with* Pirozzi, Maria) A characterization of locally finite modular groups. (Italian) **90i:20031**
Heineken, Hermann Groups with restriction on their infinite subnormal subgroups. **90f:20040**
Kuzennyĭ, N. F. *see* **Subbotin, I. Ya., 90a:20053**
Mõhres, Walter Torsionsfreie Gruppen, deren Untergruppen alle subnormal sind. [Torsion-free groups all of whose subgroups are subnormal] **90d:20047**
— Auflösbare Gruppen mit endlichem Exponenten, deren Untergruppen alle subnormal sind. I, II. [Solvable groups of finite exponent all of whose subgroups are subnormal. I, II] **90k:20053**
Pálfy, P. P. On Feit's examples of intervals in subgroup lattices. **90a:20052**
Pirozzi, Maria *see* **Celentani, Maria Rosaria, 90i:20031**
Smith, Howard Joins of almost subnormal subgroups. **90g:20035**
— Elliptically embedded subgroups and nilpotent products. **90k:20054**
— Subnormal and ascendant subgroups with rank restrictions. **90m:20033**
Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Locally solvable groups in which all infinite subgroups are pronormal. **90a:20053**
Zacher, Giovanni Current knowledge about certain aspects of the lattice of subgroups of a group. (Italian) **90g:20036**

Items with secondary classifications in 20E15

Aschbacher, Michael The 27-dimensional module for E_6. III. **90m:20044**
Heineken, Hermann (*with* Lennox, John C.; Stewart, A. G. R.; Wiegold, James) Groups with cyclic derived factor-group. **90h:20042**
Jastrzebowski, Wojtek (*with* Lawrence, John W.) Systems of equations over finitely generated solvable groups. **90c:20039**
Kurzweil, Hans Die Praefrattinigruppe im Intervall eines Untergruppenverbandes. [The pre-Frattini group in the interval subgroup lattice] **90i:20022**
Lawrence, John W. *see* **Jastrzebowski, Wojtek, 90c:20039**
Lennox, John C. *see* **Heineken, Hermann; et al., 90h:20042**
Smith, Howard On torsion-free hypercentral groups with all subgroups subnormal. **90h:20049**
Stewart, A. G. R. *see* **Heineken, Hermann; et al., 90h:20042**
Wiegold, James *see* **Heineken, Hermann; et al., 90h:20042**

20E18 Limits, profinite groups

Herfort, W. (*with* Ribes, Luis) Solvable subgroups of free products of profinite groups. **90b:20026**
— (*with* Ribes, Luis) On automorphisms of free pro-p-groups. I. **90d:20048**
Mel′nikov, O. V. *see* **Zalesskiĭ, P. A., 90f:20041**
Miyake, Katsuya (*with* Opolka, H.) A note on irreducible representations of profinite nilpotent groups. **90g:20037**
Opolka, H. *see* **Miyake, Katsuya, 90g:20037**

Ribes, Luis *see* **Herfort, W., 90b:20026** *and* **90d:20048**
Simons, Lloyd D. Z_p-towers in Demuškin groups. **90h:20035**
Zalesskiĭ, P. A. Nilpotent and solvable profinite groups acting on trees. (Russian. English summary) **90f:20042**
— Solvable profinite groups that act on trees. (Russian. English summary) **90i:20032**
— (*with* Mel′nikov, O. V.) Subgroups of profinite groups acting on trees. **90f:20041**
— Geometric characterization of free constructions of profinite groups. **90e:20025**
Zubkov, A. N. The lattice of subvarieties of pro-p-groups has the power of the continuum. **90d:20049**

Items with secondary classifications in 20E18

Asada, Mamoru Indistinguishability of conjugacy classes of the pro-l mapping class group. **90b:14015**
Beale, Stephen (*with* Harrison, D. K.) Prime-like subobjects of a profinite group. **90a:13008**
Geyer, Wulf-Dieter (*with* Jarden, Moshe) On the normalizer of finitely generated subgroups of absolute Galois groups of uncountable Hilbertian fields of characteristic 0. **90a:12012**
Harrison, D. K. *see* **Beale, Stephen, 90a:13008**
Jarden, Moshe *see* **Geyer, Wulf-Dieter, 90a:12012**
Oger, Francis Elementary equivalence of a polycyclic-by-finite group and its profinite completion. **90f:20003**
Sushchanskiĭ, V. I. Representation of residually finite groups by isometries of homogeneous ultrametric spaces of finite width. (Russian. English summary) **90d:20056**
Ware, Roger Automorphisms of Pythagorean fields and their Witt rings. **90g:11054**
Wingberg, Kay Representations of locally profinite groups. (*see* **90m:11193**)
— On Demuskin groups with involution. **90j:11121**
Zubkov, A. N. ★ Нижний центральный ряд про-p-группы общих матриц второго порядка. (Russian) [The lower central series of a pro-p-group of second-order general matrices] **90f:20050**

20E22 Extensions, wreath products, and other compositions

Buzási, Károly (*with* Kovacs, L. G.) The minimal number of generators of wreath products of nilpotent groups. **90d:20050**
Èristova, E. D. Classes of conjugate elements of wreath products of some finite groups. (Russian) (*see* **90h:20005**)
Gilbert, N. D. (*with* Higgins, P. J.) The nonabelian tensor product of groups and related constructions. **90e:20026**
Gupta, Chander Kanta (*with* Gupta, Narain; Levin, Frank) On conjugacy p-separability of free centre-by-metabelian groups. **90h:20036**
Gupta, Narain *see* **Gupta, Chander Kanta; et al., 90h:20036**
Higgins, P. J. *see* **Gilbert, N. D., 90e:20026**
Hilton, Peter John Groups with operators. **90g:20038**
Kovacs, L. G. *see* **Buzási, Károly, 90d:20050**
Kuzennyĭ, N. F. (*with* Subbotin, I. Ya.) Nonsplittable extensions of groups. (Russian) **90d:20051**
Leinen, Felix Amalgamation of locally finite p-groups over a countable FC-group. **90d:20052**
Levin, Frank *see* **Gupta, Chander Kanta; et al., 90h:20036**
Ol′shanskiĭ, A. Yu. A. I. Mal′tsev's problem on operations over groups. (Russian. English summary) **90g:20039**
Rosenbaum, Kurt (*with* Schott, Brita) Vom Beispiel zur Theorie. Ergebnisse einer forschungsbezogenen Diplomarbeit. [From example to theory. Results of a research-oriented thesis] **90d:20053**
Schott, Brita *see* **Rosenbaum, Kurt, 90d:20053**
Subbotin, I. Ya. *see* **Kuzennyĭ, N. F., 90d:20051**
Zaĭtsev, D. I. Hyperfinite extensions of abelian groups. (Russian) **90d:20054**

Items with secondary classifications in 20E22

Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) Soluble groups which are the product of a nilpotent and a polycyclic subgroup. **90d:20062**
Cannonito, F. B. On inequivalent group extensions. **90m:20067**
Franciosi, Silvana *see* **Amberg, Bernhard; et al., 90d:20062**
de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 90d:20062**
Gross, Fletcher Automorphisms of permutational wreath products. **90g:20043**
Hilton, Peter John On the extended genus. **90m:20041**
Kovacs, L. G. Wreath decompositions of finite permutation groups. **90j:20006**
Odoni, R. W. K. Realising wreath products of cyclic groups as Galois groups. **90a:12013**
Rosenbaum, Kurt Die Untergruppen von halbdirekten Produkten. [The subgroups of semidirect products] **90c:20032**

20E25 Local properties

Belyaev, V. V. Locally inner endomorphisms of SF-groups. **90f:20043**
Emaldi, Maurizio On locally finite $\overline{T}$-groups. (Italian. English summary) **90e:20027**
Kegel, O. H. Four lectures on Sylow theory in locally finite groups. **90c:20037**
Kemkhadze, Sh. S. Some new quasi-universal classes of groups. (Russian. English and Georgian summaries) **90a:20054**
Kuzucuoglu, Mahmut (*with* Phillips, Richard E.) Locally finite minimal non-FC-groups. **90d:20055**
Phillips, Richard E. *see* **Kuzucuoglu, Mahmut, 90d:20055**

Items with secondary classifications in 20E25

Antonov, Vladimir Alekseevich Locally finite groups with small normalizers. II. (Russian) **90g:20040**
Bruno, Brunella On p-groups with "nilpotent-by-finite" proper subgroups. (Italian summary) **90a:20071**
Casacuberta, Carles (*with* Hilton, Peter John) On special nilpotent groups. **90j:20077**
Celentani, Maria Rosaria (*with* Pirozzi, Maria) A characterization of locally finite modular groups. (Italian) **90i:20031**
Gupta, Chander Kanta (*with* Gupta, Narain; Levin, Frank) On conjugacy p-separability of free centre-by-metabelian groups. **90h:20036**
Gupta, Narain *see* **Gupta, Chander Kanta; et al., 90h:20036**
Hilton, Peter John *see* **Casacuberta, Carles, 90j:20077**
Konyukh, V. S. On the theory of locally nilpotent linear groups. (Russian. English summary) **90k:20082**
Kurdachenko, L. A. (*with* Pylaev, V. V.) Groups that are dual to Dedekind groups. (Russian. English summary) **90j:20078**
Kuzennyĭ, N. F. *see* **Subbotin, I. Ya., 90a:20053**
Levin, Frank *see* **Gupta, Chander Kanta; et al., 90h:20036**
Pirozzi, Maria *see* **Celentani, Maria Rosaria, 90i:20031**
Polovitskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. **90a:20073**
Pylaev, V. V. *see* **Kurdachenko, L. A., 90j:20078**
Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. I. **90k:20058**
— Equations in groups, with special emphasis on localization and torsion. II. **90j:20069**
Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Locally solvable groups in which all infinite subgroups are pronormal. **90a:20053**

20E26 Residual properties and generalizations

Campbell, Robert I. Notes on the Baumslag-Solitar non-residually finite examples. **90h:20037**
Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. **90j:20063**
Sushchanskiĭ, V. I. Representation of residually finite groups by isometries of homogeneous ultrametric spaces of finite width. (Russian. English summary) **90d:20056**

Items with secondary classifications in 20E26

Allenby, R. B. J. T. (*with* Tang, C. Y.) On the residual finiteness of certain polygonal products. **90e:20024**
Alperin, Roger C. (*with* Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. **90m:20029**
Andreadakis, S. (*with* Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. **90j:20054**
Peterson, Brian L. *see* **Alperin, Roger C., 90m:20029**
Raptis, E. (*with* Varsos, D.) Residual properties of HNN-extensions with base group an abelian group. **90g:20034**
— *see also* **Andreadakis, S.; et al., 90j:20054**
Shunkov, V. P. M_p groups with a regular handle. (Russian) **90f:20039**
Tang, C. Y. *see* **Allenby, R. B. J. T., 90e:20024**
Varsos, D. *see* **Raptis, E., 90g:20034** *and* **Andreadakis, S.; et al., 90j:20054**

20E28 Maximal subgroups, minimal subgroups

Kleidman, Peter B. (*with* Wilson, Robert A.) The maximal subgroups of $E_6(2)$ and $\mathrm{Aut}(E_6(2))$. **90m:20034**
Norton, S. P. (*with* Wilson, Robert A.) The maximal subgroups of $F_4(2)$ and its automorphism group. **90j:20064**
Wilson, Robert A. *see* **Norton, S. P., 90j:20064** *and* **Kleidman, Peter B., 90m:20034**

Items with secondary classifications in 20E28

Ballester-Bolinches, A. Maximal subgroups and formations. **90k:20035**
Borovik, A. V. Finite subgroups of simple algebraic groups. (Russian) **90i:20018**
Chak″ryan, Kerope B. (*with* Petrov, Nikola) Maximal subgroups of ${}^2G_2(q)$. (Russian summary) **90k:20030**
Delepelaire, Jean-François Sous-groupes hyper-résolubles transitifs du groupe symétrique de degré n. (English summary) [Supersolvable transitive subgroups of the symmetric group of degree n] **90m:20005**
Khazal, Reyadh R. A note on maximal subgroups in finite groups. **90j:20045**
— (*with* Mukherjee, N. P.) A note on influence of subgroup restrictions in finite group structure. **90j:20051**
— A note on minimal and maximal subgroups in a finite group. (Arabic summary) **90j:20035**
Li, Shang Zhi Overgroups of certain subgroups in the classical groups over division rings. **90c:20053**
Linton, Stephen A. The maximal subgroups of the Thompson group. **90c:20024**
Mukherjee, N. P. *see* **Khazal, Reyadh R., 90j:20051**
Petrov, Nikola *see* **Chak″ryan, Kerope B., 90k:20030**
Seitz, Gary M. Maximal subgroups of exceptional groups. **90c:20054**
Testerman, Donna M. A construction of certain maximal subgroups of the algebraic groups E_6 and F_4. **90d:20082**
Tuzov, A. N. Complementability of subgroups in Chernikov A-groups. (Russian) **90a:20069**
Udpikar, S. G. Torsion groups generated by two elements. **90h:20026**

20E32 Simple groups [see also 20D05]

Woldar, Andrew J. Genus actions of finite simple groups. **90h:20038**

Items with secondary classifications in 20E32

Brown, Kenneth S. ★ Buildings. **90e:20001**
Carter, R. W. ★ Simple groups of Lie type. **90g:20001**
Hall, J. I. Infinite alternating groups as finitary linear transformation groups. **90a:20079**
Ivanov, S. V. P. Hall's conjecture on the finiteness of verbal subgroups. (Russian) **90j:20061**
Kemmerich, Susanne (*with* Richter, M. M.) Bemerkungen über die Automorphismengruppe von homogenen Boole'schen Algebren. [Remarks on the automorphism group of homogeneous Boolean algebras] **90e:06027**
Kleidman, Peter B. (*with* Wilson, Robert A.) The maximal subgroups of $E_6(2)$ and $\mathrm{Aut}(E_6(2))$. **90m:20034**
Richter, M. M. *see* **Kemmerich, Susanne, 90e:06027**

Wiegold, James Is the direct square of every 2-generator simple group 2-generator? **90f:20045**
Wilson, Robert A. *see* **Kleidman, Peter B., 90m:20034**

20E34 General structure theorems

Antonov, Vladimir Alekseevich Locally finite groups with small normalizers. II. (Russian) **90g:20040**
Cutolo, Giovanni A normalizer condition on systems of subgroups. (Italian summary) **90g:20041**
Rhemtulla, Akbar H. (*with* Weiss, Alfred R.) Groups with permutable subgroup products. **90b:20027**
Weiss, Alfred R. *see* **Rhemtulla, Akbar H., 90b:20027**

Items with secondary classifications in 20E34

Amberg, Bernhard Infinite factorized groups. **90k:20060**
Heineken, Hermann On *E*-groups in the sense of Peng. **90g:20055**
Holt, Derek F. Computation of cohomology groups and enumeration of finite perfect groups. (*see* **90m:00036**)
Phillips, Richard E. The structure of groups of finitary transformations. **90a:20080**

20E36 General theorems concerning automorphisms of groups

Bryant, Roger M. (*with* Macedońska, Olga) Automorphisms of relatively free nilpotent groups of infinite rank. **90e:20028**
Burns, R. G. (*with* Pi, Lian) Generators for the bounded automorphisms of infinite-rank free nilpotent groups. **90i:20033**
Gross, Fletcher Automorphisms of induced extensions. **90g:20042**
— Automorphisms of permutational wreath products. **90g:20043**
Kegel, O. H. Automorphisms. **90a:20055**
Kovacs, L. G. Groups with uniform automorphisms. **90h:20039**
Liu, Chang An *see* **You, Hong, 90g:20044**
Macedońska, Olga *see* **Bryant, Roger M., 90e:20028**
Maxson, Carlton J. (*with* Pilz, Günter F.) Endomorphisms of fibred groups. **90a:20056**
McCool, James Some remarks on IA automorphisms of free groups. **90d:20057**
Pettet, Martin R. Central automorphisms of periodic groups. **90a:20057**
Pi, Lian *see* **Burns, R. G., 90i:20033**
Pilz, Günter F. *see* **Maxson, Carlton J., 90a:20056**
You, Hong (*with* Liu, Chang An) Automorphisms of a class of solvable groups. **90g:20044**

Items with secondary classifications in 20E36

Abdel-Gawad, A. G. A. E. On automorphisms of free groups. **90c:20034**
Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. **90e:20035**
Deaconescu, Marian (*with* MacHale, Desmond) Odd order groups with an automorphism cubing many elements. **90a:20041**
Gupta, Chander Kanta (*with* Levin, Frank) Automorphisms of nilpotent-by-abelian groups. **90i:20036**
Hekster, N. S. (*with* Lenstra, H. W., Jr.) Groups with finitely many nonnormal subgroups. **90j:20059**
Herfort, W. (*with* Ribes, Luis) On automorphisms of free pro-*p*-groups. I. **90d:20048**
Hoare, A. H. M. On automorphisms of free groups. I. **90g:20033**
Ko, K. H. Pseudo-conjugations. **90d:20060**
Krstić, Sava On graphs representing automorphisms of free groups. **90b:20024**
Lenstra, H. W., Jr. *see* **Hekster, N. S., 90j:20059**
Levin, Frank *see* **Gupta, Chander Kanta, 90i:20036**
Lustig, Martin (*with* Moriah, Yoav; Rosenberger, Gerhard) Automorphisms of Fuchsian groups and their lifts to free groups. **90j:20100**
MacHale, Desmond *see* **Deaconescu, Marian, 90a:20041**
Moriah, Yoav *see* **Lustig, Martin; et al., 90j:20100**
Nesin, Ali Groups of finite Morley rank with transitive group automorphisms. **90j:03062**
Ribes, Luis *see* **Herfort, W., 90d:20048**
Rosenberger, Gerhard *see* **Lustig, Martin; et al., 90j:20100**

20E99 None of the above, but in this section

Alperin, Roger C. Two-dimensional representations of groups with property FA. **90h:20040**
Fabrykowski, Jacek (*with* Gupta, Narain) On groups with sub-exponential growth functions. **90e:20029**
Gupta, Narain *see* **Fabrykowski, Jacek, 90e:20029**
Higman, Graham Some groups all of whose proper verbal quotients are relatively free. **90j:20065**
Shahriari, Shahriar Groups isomorphic via decomposition. **90m:20035**
Stöhr, Ralph On elements of order four in certain free central extensions of groups. **90c:20038**

Items with secondary classifications in 20E99

Jungnickel, Dieter Partial spreads over Z_q. **90k:51018**
Szwarc, Ryszard A short proof of the Grigorchuk-Cohen cogrowth theorem. **90e:43002**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Baumslag, Gilbert (*with* Shalen, Peter B.) Groups whose three-generator subgroups are free. **90h:20041**
Biggs, Norman Confluence of some presentations associated with graphs. **90d:20058**
Brick, Stephen G. Normal-convexity and equations over groups. **90a:20058**
Campbell, C. M. (*with* Robertson, E. F.; Thomas, Richard M.) On groups related to Fibonacci groups. **90a:20059**
— (*with* Robertson, E. F.; Thomas, Richard M.) On certain one-relator products of cyclic groups. **90j:20067**
— (*with* Robertson, E. F.; Williams, P. D.) On presentations of $\mathrm{PSL}(2,p^n)$. **90j:20066**
— *see also* **Robertson, E. F., 90a:20064**
Curran, Peter M. Subgroups of finite index in certain classes of finitely presented groups. **90d:20059**
Edjvet, M. A Magnus theorem for free products of locally indicable groups. **90k:20055**
Evans, Martin J. Primitive elements in free groups. **90a:20060**
Fine, Benjamin (*with* Howie, James; Rosenberger, Gerhard) Ree-Mendelsohn pairs in generalized triangle groups. **90a:20061**
Fournelle, Thomas A. (*with* Weston, Kenneth W.) Verbal embeddings and a geometric approach to some group presentations. **90g:20045**
Heineken, Hermann (*with* Lennox, John C.; Stewart, A. G. R.; Wiegold, James) Groups with cyclic derived factor-group. **90h:20042**
Howie, James *see* **Fine, Benjamin; et al., 90a:20061**
Ishibashi, Hiroyuki Necessary and sufficient condition for certain subsets of transvections to generate a subgroup of the symplectic group over local rings. **90h:20043**
Jastrzebowski, Wojtek (*with* Lawrence, John W.) Systems of equations over finitely generated solvable groups. **90c:20039**
Johnson, David Lawrence Noncancellation and nonabelian tensor squares. **90a:20062**
Ko, K. H. Pseudo-conjugations. **90d:20060**
Lawrence, John W. *see* **Jastrzebowski, Wojtek, 90c:20039**
Lennox, John C. *see* **Heineken, Hermann; et al., 90h:20042**
Levin, Frank (*with* Rosenberger, Gerhard) A class of SQ-universal groups. **90b:20028**
Lewin, Jacques The growth function of a graph group. **90c:20040**
Lichtenbaum, Stephen Groups related to scissors-congruence groups. **90e:20030**
Mennicke, Jens L. On Fibonacci groups and some other groups. (*see* **90h:20004**)
Neumann, B. H. Yet more on finite groups with few defining relations. **90a:20063**
Newman, M. F. Proving a group infinite. **90j:20068**
Niemenmaa, M. (*with* Rosenberger, Gerhard) On the infinity of the Lonergan-Hosack presentation. **90i:20034**
Pride, Stephen J. Some problems in combinatorial group theory. **90k:20056**
Profio, Joseph S. Using subnormality to show the simple connectivity at infinity of a finitely presented group. **90k:20057**
Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. I. **90k:20058**
— Equations in groups, with special emphasis on localization and torsion. II. **90j:20069**
Robertson, E. F. (*with* Campbell, C. M.) Symmetric presentations. **90a:20064**
— (*with* Williams, P. D.) Efficient presentations of the groups $\mathrm{PSL}(2,2p)$ and $\mathrm{SL}(2,2p)$. **90a:20065**
— *see also* **Campbell, C. M.; et al., 90a:20059; 90j:20066** *and* **90j:20067**
Rong, Yao Tang Systems of generators for the compound symmetric group $S^*_{m,l}$ and the compound alternating group $A^*_{m,l}$. (Chinese. English summary) **90j:20070**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al., 90a:20061; Levin, Frank, 90b:20028** *and* **Niemenmaa, M., 90i:20034**
Shalen, Peter B. *see* **Baumslag, Gilbert, 90h:20041**
Shi, Jian Yi A result on the Bruhat order of a Coxeter group. **90k:20059**
Soicher, Leonard H. Presentations for some groups related to Co_1. (*see* **90m:00036**)
— From the Monster to the Bimonster. **90j:20071**
Stewart, A. G. R. *see* **Heineken, Hermann; et al., 90h:20042**
Thomas, Richard M. *see* **Campbell, C. M.; et al., 90a:20059** *and* **90j:20067**
Waterhouse, William C. Automorphisms of the Bruhat order on Coxeter groups. **90f:20044**
Weston, Kenneth W. *see* **Fournelle, Thomas A., 90g:20045**
Wiegold, James Is the direct square of every 2-generator simple group 2-generator? **90f:20045**
— On some groups with trivial multiplicator. **90g:20046**
— *see also* **Heineken, Hermann; et al., 90h:20042**
Williams, P. D. *see* **Robertson, E. F., 90a:20065** *and* **Campbell, C. M.; et al., 90j:20066**

Items with secondary classifications in 20F05

Buzási, Károly (*with* Kovacs, L. G.) The minimal number of generators of wreath products of nilpotent groups. **90d:20050**
Conder, Marston (*with* Lorimer, Peter) Automorphism groups of symmetric graphs of valency 3. **90g:05097**
Conduché, Daniel (*with* Ellis, G. J.) Quelques propriétés homologiques des modules précroisés. [Some homological properties of precrossed modules] **90i:20053**
Craggs, R. Freely reducing group readings for 2-complexes in 4-manifolds. **90k:57018**
Ellis, G. J. *see* **Conduché, Daniel, 90i:20053**
Fabrykowski, Jacek (*with* Gupta, Narain) On groups with sub-exponential growth functions. **90e:20029**
Gersten, S. M. Branched coverings of 2-complexes and diagrammatic reducibility. **90a:57004**
Gupta, Narain *see* **Fabrykowski, Jacek, 90e:20029**
Guralnick, R. On the number of generators of a finite group. **90m:20027**
Hahn, Alexander J. The finite presentability of linear groups. **90f:20062**
Howie, James On the SQ-universality of $T(6)$-groups. **90h:20044**
Jantzen, Matthias ★ Confluent string rewriting. **90d:68044**
Kovacs, L. G. *see* **Buzási, Károly, 90d:20050**
Liu, Chang An *see* **You, Hong, 90g:20044**
Lockhart, Jody Meyer An HNN-extension with cyclic associated subgroups and with unsolvable conjugacy problem. **90d:03086**
Lorimer, Peter *see* **Conder, Marston, 90g:05097**
Lucchini, Andrea A bound on the number of generators of a finite group. **90m:20026**
Madlener, Klaus (*with* Otto, Friedrich) On groups having finite monadic Church-Rosser presentations. **90a:20117**
— (*with* Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) **90a:20118**
Otto, Friedrich *see* **Madlener, Klaus, 90a:20117** *and* **90a:20118**

Pride, Stephen J. Involutary presentations, with applications to Coxeter groups, NEC-groups, and groups of Kanevskiĭ. **90g:20047**
Quintana, Ricardo, Jr. A bound on the order of finitely generated nilpotent groups with an exponent. **90k:20044**
Rosenberger, Gerhard Minimal generating systems of a subgroup of $\mathrm{SL}(2, \mathbf{C})$. **90g:20075**
Szwarc, Ryszard A short proof of the Grigorchuk-Cohen cogrowth theorem. **90e:43002**
Toptsis, Anestis A. New two-element generating sets for $M22$, $M23$, $M24$. (*see* **90m:00036**)
Waterhouse, William C. Two generators for the general linear groups over finite fields. **90g:20069**
Weinbaum, C. M. Unique subwords in nonperiodic words. **90k:20097**
You, Hong (*with* Liu, Chang An) Automorphisms of a class of solvable groups. **90g:20044**

20F06 Cancellation theory

Howie, James On the SQ-universality of $T(6)$-groups. **90h:20044**
Juhász, Arye Small cancellation theory with a unified small cancellation condition. I. **90j:20072**
Lysënok, I. G. Solutions of quadratic equations in groups with the small cancellation condition. **90b:20029**

Items with secondary classifications in 20F06

Gu, Zhi-Bin Hyperbolic surfaces and quadratic equations in groups. **90g:20053**
Pride, Stephen J. Involutary presentations, with applications to Coxeter groups, NEC-groups, and groups of Kanevskiĭ. **90g:20047**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03D05, 03D40, 06B25, 08A50, 68Qxx]

Aĭvazyan, S. V. A problem of A. I. Mal′tsev. **90c:20041**
Baumslag, Gilbert (*with* Gildenhuys, Dion; Strebel, Ralph) Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. III. **90a:20066**
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) Solutions of equations in free groups. **90a:20067**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90a:20067**
Frougny, Christiane (*with* Sakarovitch, Jacques; Schupp, Paul) Finiteness conditions on subgroups and formal language theory. **90a:20068**
Gildenhuys, Dion *see* **Baumslag, Gilbert; et al., 90a:20066**
Goncharov, S. S. (*with* Molokov, A. V.; Romanovskiĭ, N. S.) Nilpotent groups of finite algorithmic dimension. **90d:20061**
Gupta, Chander Kanta (*with* Herfort, W.; Levin, Frank) The conjugacy problem for centre-by-metabelian groups. **90e:20031**
Herfort, W. *see* **Gupta, Chander Kanta; et al., 90e:20031**
Horadam, K. J. The conjugacy problem for finite graph products. **90c:20042**
Jacquemard, Alain About the effective classification of conjugacy classes of braids. **90m:20036**
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Levin, Frank *see* **Gupta, Chander Kanta; et al., 90e:20031**
Madlener, Klaus (*with* Otto, Friedrich) Pseudonatural algorithms for finitely generated presentations of monoids and groups. **90f:20047**
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Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. **90h:20032**
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Tretkoff, Carol Complexity, combinatorial group theory and the language of palutators. **90e:68039**

20F12 Commutator calculus

Dark, Rex S. *see* **Newell, Martin L., 90h:20046**
Dennis, R. K. (*with* Vaserstein, L. N.) Commutators in linear groups. **90h:20045**
Gaglione, Anthony M. (*with* Waldinger, Hermann V.) A theorem in the commutator calculus. **90c:20043**
Melançon, Guy (*with* Reutenauer, Christophe) Lyndon words, free algebras and shuffles. **90j:20074**
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20F14 Derived series, central series, and generalizations

Glasby, S. P. The composition and derived lengths of a soluble group. **90j:20075**
Robinson, Derek J. S. Reflections on the constructive theory of polycyclic groups. **90j:20076**
Rosset, Shmuel A higher analogue of the lower central series and some applications of it. (French summary) **90m:20037**
Zerck, Rainer On the homology of the higher relation modules. **90f:20049**
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Alperin, Roger C. (*with* Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. **90m:20029**
Brandl, Rolf Commutators and Π-subgroups. **90i:20025**
Falk, Michael J. (*with* Randell, R.) Pure braid groups and products of free groups. **90d:20070**
Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. **90j:20063**
Hekster, N. S. Varieties of groups and isologisms. **90a:20050**
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Randell, R. *see* **Falk, Michael J., 90d:20070**
Shafarevich, I. R. Factors of decreasing central series. (Russian) **90e:20023**

20F16 Solvable groups, supersolvable groups

Ahmad, Abrar *see* **Yadav, N. S.,** (Not in MR)
Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) Soluble groups which are the product of a nilpotent and a polycyclic subgroup. **90d:20062**
— Infinite factorized groups. **90k:20060**
Asaad, M. (*with* Shaalan, A.) On the supersolvability of finite groups. **90h:20047**
Beidleman, James C. (*with* Karbe, M. J.; Tomkinson, M. J.) Fitting classes of $\mathscr{S}_1$-groups. I. **90d:20063**
Franciosi, Silvana (*with* de Giovanni, Francesco) Soluble groups with many nilpotent quotients. **90m:20038**
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Isaacs, I. M. Dual modules and group actions on extra-special groups. **90f:20051**
Karbe, M. J. *see* **Beidleman, James C.; et al., 90d:20063**
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Ortaçgil, Ercüment Fields hidden in groups. (Turkish summary) **90d:20064**
Rhemtulla, Akbar H. Groups with many elliptic subgroups. **90m:20039**
— (*with* Sidki, Said) Factorizable infinite solvable groups. **90d:20065**
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— *see also* **Beidleman, James C.; et al., 90d:20063**
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Bhattacharya, Prabir (*with* Mukherjee, N. P.) Correction to: "A family of maximal subgroups containing the Sylow subgroups and some solvability conditions" [Arch. Math. (Basel) 45 (1985), no. 5, 390–397; MR 87b:20028]. **90g:20021a**
— *see also* **Zhang, Bao Lin[2], 90g:20021b**
Casolo, Carlo Groups with finite conjugacy classes of subnormal subgroups. **90k:20052**
Darnel, Michael R. (*with* Glass, A. M. W.) Commutator relations and identities in lattice-ordered groups. **90i:06020**

Enochs, Kathryn (*with* Nesin, Ali) On 2-step solvable groups of finite Morley rank. **90m:03068**

Glasby, S. P. The composition and derived lengths of a soluble group. **90j:20075**

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Möhres, Walter Torsionsfreie Gruppen, deren Untergruppen alle subnormal sind. [Torsion-free groups all of whose subgroups are subnormal] **90d:20047**

— Auflösbare Gruppen mit endlichem Exponenten, deren Untergruppen alle subnormal sind. I, II. [Solvable groups of finite exponent all of whose subgroups are subnormal. I, II] **90k:20053**

Mukherjee, N. P. *see* **Bhattacharya, Prabir, 90g:20021a** *and* **Zhang, Bao Lin^2, 90g:20021b**

Nesin, Ali Solvable groups of finite Morley rank. **90d:03068**

— *see also* **Enochs, Kathryn, 90m:03068**

Polovitskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. **90a:20073**

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Zhu, De Gao Constructing groups of order 2^3p for odd primes $p \neq 3, 7$. (Chinese) **90e:20016**

20F17 Formations of groups [see also 20D10]

Items with secondary classifications in 20F17

Ballester-Bolinches, A. $\mathfrak{h}$-normalizers and local definitions of saturated formations of finite groups. **90j:20032**

Hofmann, Mark C. Locally constructed formations. **90m:20022**

Shemetkov, L. A. New ideas and results in the theory of formations. (Russian) **90i:20023**

20F18 Nilpotent groups

Casacuberta, Carles (*with* Hilton, Peter John) On special nilpotent groups. **90j:20077**

Drobotun, B. N. *see* **Goncharov, S. S., 90g:20049**

Endimioni, Gérard Conditions de nilpotence dans certaines variétés de groupes. (English summary) [Conditions for nilpotency in certain varieties of groups] **90m:20040**

Goncharov, S. S. (*with* Drobotun, B. N.) The algorithmic dimension of nilpotent groups. **90g:20049**

Hilton, Peter John On the extended genus. **90m:20041**

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Maier, Berthold J. On universal nilpotent groups. **90g:20050**

Verardi, Libero Vector spaces of invertible matrices and associated groups. (Italian. English summary) **90m:20042**

Weber, Bernhard ★ Zur Rationalität polynomialer Wachstumsfunktionen. (German) [On the rationality of polynomial growth functions] **90h:20048**

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Alperin, Roger C. (*with* Peterson, Brian L.) Growth functions for residually torsion-free nilpotent groups. **90m:20029**

Bovdi, A. A. (*with* Khripta, I. I.) Generalized nilpotence of the multiplicative group of a group ring. **90j:20012**

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— (*with* Papistas, A.) Automorphism groups of nilpotent groups. **90h:20052**

Burns, R. G. (*with* Pi, Lian) Generators for the bounded automorphisms of infinite-rank free nilpotent groups. **90i:20033**

Dark, Rex S. *see* **Newell, Martin L., 90h:20046**

Darnel, Michael R. (*with* Glass, A. M. W.) Commutator relations and identities in lattice-ordered groups. **90i:06020**

Endimioni, Gérard Une condition suffisante pour qu'un groupe d'Engel soit nilpotent. (English summary) [A sufficient condition for an Engel group to be nilpotent] **90e:20036**

Franciosi, Silvana (*with* de Giovanni, Francesco) Soluble groups with many nilpotent quotients. **90m:20038**

de Giovanni, Francesco *see* **Franciosi, Silvana, 90m:20038**

Glass, A. M. W. *see* **Darnel, Michael R., 90i:06020**

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Gupta, Chander Kanta Automorphisms of certain relatively free solvable groups. (*see* 90h:20004)

— *see also* **Bryant, Roger M., 90e:20034**

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Hursey, Robert J. On nilpotent and polycyclic groups. **90k:06028**

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Khukhro, E. I. Nilpotent periodic groups with an almost regular automorphism of prime order. (Russian) **90h:20058**

— Nilpotent p-groups and their automorphisms. (Russian) **90m:20024**

Konyukh, V. S. On the theory of locally nilpotent linear groups. (Russian. English summary) **90k:20082**

Kovacs, L. G. Groups with uniform automorphisms. **90h:20039**

Lenstra, H. W., Jr. *see* **Hekster, N. S., 90j:20059**

Möhres, Walter Torsionsgruppen, deren Untergruppen alle subnormal sind. (English summary) [Torsion groups all of whose subgroups are subnormal] **90i:20035**

Molokov, A. V. *see* **Goncharov, S. S.; et al., 90d:20061**

Newell, Martin L. (*with* Dark, Rex S.) On metabelian groups of exponent eight. **90h:20046**

Papistas, A. *see* **Bryant, Roger M., 90h:20052**

Peterson, Brian L. *see* **Alperin, Roger C., 90m:20029**

Pi, Lian *see* **Burns, R. G., 90i:20033**

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Rao, Vidhyanath Morphisms inverted by profinite completion. **90d:55018**

Ribenboim, P. Equations in groups, with special emphasis on localization and torsion. II. **90j:20069**

Romanovskiĭ, N. S. *see* **Goncharov, S. S.; et al., 90d:20061**

Segal, Dan On the automorphism groups of certain Lie algebras. **90e:17022**

Seifter, Norbert Nilpotent groups and transitive graphs. **90a:05096**

Timmesfeld, F. G. A remark on a theorem of Baer. **90k:20066**

Videla, Carlos R. On the Mal′cev correspondence. **90i:20047**

20F19 Generalizations of solvable and nilpotent groups

Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) Groups with an FC-nilpotent triple factorization. **90a:20070**

Bruno, Brunella On p-groups with "nilpotent-by-finite" proper subgroups. (Italian summary) **90a:20071**

Fan, Yun Weakly supersolvable groups. (Chinese) **90e:20032**

Franciosi, Silvana *see* **Amberg, Bernhard; et al., 90a:20070**

de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 90a:20070**

Kurdachenko, L. A. (*with* Pylaev, V. V.) Groups that are dual to Dedekind groups. (Russian. English summary) **90j:20078**

Otal, Javier (*with* Peña, Juan Manuel) Locally graded groups with certain minimal conditions for subgroups. II. **90e:20033**

Peña, Juan Manuel *see* **Otal, Javier, 90e:20033**

Pylaev, V. V. *see* **Kurdachenko, L. A., 90j:20078**

Smith, Howard On torsion-free hypercentral groups with all subgroups subnormal. **90h:20049**

Tushev, A. V. A class of periodic groups with a complemented locally nilpotent coradical. (Russian) **90k:20061**

Items with secondary classifications in 20F19

Belyaev, V. V. Locally inner endomorphisms of SF-groups. **90f:20043**

Ensel, Heiner Die Automorphismengruppe der abzählbaren, existentiell abgeschlossenen $\mathscr{P}_A$-Gruppe E_A. [The automorphism group of the countable, existentially closed $\mathscr{P}_A$-group E_A] **90c:20046**

— Existentiell abgeschlossene Sylowturmgruppen. [Existentially closed Sylow tower groups] **90c:20047**

Fabrykowski, Jacek (*with* Gupta, Narain) On groups with sub-exponential growth functions. **90e:20029**

Grigorchuk, R. I. On the Hilbert-Poincaré series of graded algebras that are associated with groups. **90j:20063**

Gupta, Narain *see* **Fabrykowski, Jacek, 90e:20029**

Kovacs, L. G. Groups with uniform automorphisms. **90h:20039**

Wilson, John S. A note on products of abelian by finite groups. **90j:20058**

20F22 Other classes of groups defined by subgroup chains

Higman, Graham Some countably free groups. **90a:20072**

Kuzennyĭ, N. F. *see* **Subbotin, I. Ya., 90c:20044**

Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Groups with a transitivity condition. (Russian) **90c:20044**

Items with secondary classifications in 20F22

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Bryce, R. A. A note on subnormal defect in finite soluble groups. **90d:20042**

Casolo, Carlo Subgroups of finite index in generalized T-groups. **90a:20051**

— Soluble groups with finite Wielandt length. **90j:20062**

Franciosi, Silvana *see* **Amberg, Bernhard; et al., 90d:20062**

de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 90d:20062**

Heineken, Hermann Groups with restriction on their infinite subnormal subgroups. **90f:20040**

Otal, Javier (*with* Peña, Juan Manuel) Locally graded groups with certain minimal conditions for subgroups. II. **90e:20033**

Peña, Juan Manuel *see* **Otal, Javier, 90e:20033**

Zaĭtsev, D. I. Hyperfinite extensions of abelian groups. (Russian) **90d:20054**

20F24 FC-groups and their generalizations

Brandl, Rolf General bounds for permutability in finite groups. **90h:20050**

Kurdachenko, L. A. Some classes of FC-groups. (Russian) **90d:20067**

Marach, V. S. Two classes of groups that can be defined by the properties of cyclic and finitely generated subgroups. (Russian) **90c:20045**

Polovitskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. **90a:20073**

Items with secondary classifications in 20F24

Blyth, Russell D. Rewriting products of group elements. I. **90b:20033**

– Rewriting products of group elements. II. **90b:20034**

– (*with* Robinson, Derek J. S.) Recent progress on rewritability in groups. **90b:20035**

– (*with* Rhemtulla, Akbar H.) Rewritable products in FC-by-finite groups. **90d:20074**

Fay, Temple H. (*with* Walls, Gary L.) Compact nilpotent groups. **90j:22001**

Kuzucuoglu, Mahmut (*with* Phillips, Richard E.) Locally finite minimal non-FC-groups. **90d:20055**

Leinen, Felix Amalgamation of locally finite p-groups over a countable FC-group. **90d:20052**

Phillips, Richard E. *see* **Kuzucuoglu, Mahmut, 90d:20055**

Rhemtulla, Akbar H. *see* **Blyth, Russell D., 90d:20074**

Robinson, Derek J. S. *see* **Blyth, Russell D., 90b:20035**

Walls, Gary L. *see* **Fay, Temple H., 90j:22001**

20F26 Special subgroups

Möhres, Walter Torsionsgruppen, deren Untergruppen alle subnormal sind. (English summary) [Torsion groups all of whose subgroups are subnormal] **90i:20035**

Items with secondary classifications in 20F26

Smith, Howard Elliptically embedded subgroups and nilpotent products. **90k:20054**

20F28 Automorphism groups of groups [see also 20E36]

Bachmuth, Seymour (*with* Mochizuki, H. Y.) The tame range of automorphism groups and GL_n. **90b:20031**

– (*with* Mochizuki, H. Y.) Infinite generation of automorphism groups. (*see* **90h:20004**)

– (*with* Mochizuki, H. Y.) Can automorphism groups ever be infinitely generated in more than a finite number of dimensions? **90h:20051**

Bryant, Roger M. (*with* Gupta, Chander Kanta) Automorphism groups of free nilpotent groups. **90e:20034**

– (*with* Papistas, A.) Automorphism groups of nilpotent groups. **90h:20052**

Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. **90e:20035**

Curzio, Mario (*with* Robinson, Derek J. S.; Smith, Howard; Wiegold, James) Some remarks on central automorphisms of hypercentral groups. **90h:20053**

– (*with* Franciosi, Silvana; de Giovanni, Francesco) On automorphisms fixing infinite subgroups of groups. **90k:20062**

Ensel, Heiner Die Automorphismengruppe der abzählbaren, existentiell abgeschlossenen $\mathscr{P}_A$-Gruppe E_A. [The automorphism group of the countable, existentially closed $\mathscr{P}_A$-group E_A] **90c:20046**

– Existentiell abgeschlossene Sylowturmgruppen. [Existentially closed Sylow tower groups] **90c:20047**

Evans, Martin J. Freely decomposable automorphism groups. **90d:20068**

Franciosi, Silvana *see* **Curzio, Mario; et al., 90k:20062**

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Gupta, Chander Kanta Automorphisms of certain relatively free solvable groups. (*see* **90h:20004**)

– (*with* Levin, Frank) Automorphisms of nilpotent-by-abelian groups. **90i:20036**

– *see also* **Bryant, Roger M., 90e:20034**

Krstić, Sava Actions of finite groups on graphs and related automorphisms of free groups. **90i:20037**

Levin, Frank *see* **Gupta, Chander Kanta, 90i:20036**

Matumoto, Takao Any group is represented by an outerautomorphism group. **90g:20051**

McCool, James A faithful polynomial representation of Out F_3. **90j:20079**

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Papistas, A. *see* **Bryant, Roger M., 90h:20052**

Robinson, Derek J. S. *see* **Curzio, Mario; et al., 90h:20053**

Servatius, Herman Automorphisms of graph groups. **90m:20043**

Smith, Howard *see* **Curzio, Mario; et al., 90h:20053**

Wiegold, James *see* **Curzio, Mario; et al., 90h:20053**

Items with secondary classifications in 20F28

Abbasi, G. Q. Central products of some metabelian p-groups of maximal class. **90b:20022**

Abdel-Gawad, A. G. A. E. On automorphisms of free groups. **90c:20034**

Bryant, Roger M. (*with* Macedońska, Olga) Automorphisms of relatively free nilpotent groups of infinite rank. **90e:20028**

Burns, R. G. (*with* Pi, Lian) Generators for the bounded automorphisms of infinite-rank free nilpotent groups. **90i:20033**

Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. **90e:57024**

hara, Yasutaka Arithmetic analogues of braid groups and Galois representations. **90h:11105**

Kaneko, Masanobu Certain automorphism groups of pro-l fundamental groups of punctured Riemann surfaces. **90j:14019**

Li, Fu An (*with* Ren, Hong Shuo) The automorphisms of two-dimensional linear groups over commutative rings. **90e:20043**

Macedońska, Olga *see* **Bryant, Roger M., 90e:20028**

Pettet, Martin R. Central automorphisms of periodic groups. **90a:20057**

Pi, Lian *see* **Burns, R. G., 90i:20033**

Ren, Hong Shuo *see* **Li, Fu An, 90e:20043**

20F29 Representations of groups as automorphism groups of algebraic systems

Aschbacher, Michael The 27-dimensional module for E_6. III. **90m:20044**

Borovik, A. V. Automorphism groups of polylinear forms and mappings. **90k:20063**

Items with secondary classifications in 20F29

Jensen, C. U. On the representations of a group as a Galois group over an arbitrary field. **90k:12006**

Schlichting, Günter On the periodicity of group operations. **90d:20008**

Serre, Jean-Pierre Groupes de Galois sur $\mathbf{Q}$. [Galois groups over $\mathbf{Q}$] **90i:11131**

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Blokhina, A. P. On the centralizer of a Coxeter element. (Russian) **90k:20064**

Conder, Marston Reidemeister-Schreier in disguise. **90a:20074**

Droms, Carl *see* **Servatius, Herman; et al., 90f:20052**

Dunwoody, M. J. Bounding the decomposition of a Poincaré duality group. **90g:20052**

Fennessey, Eric J. (*with* Pride, Stephen J.) Equivalences of two-complexes, with applications to NEC-groups. **90j:20080**

Gu, Zhi-Bin Hyperbolic surfaces and quadratic equations in groups. **90g:20053**

Hall, J. I. Graphs, geometry, 3-transpositions, and symplectic $\mathbf{F}_2$-transvection groups. **90m:20045a**

— Some 3-transposition groups with normal 2-subgroups. **90m:20045b**

Morgan, John W. Ergodic theory and free actions of groups on $\mathbf{R}$-trees. **90d:20069**

Pisanski, Tomaž (*with* Tucker, Thomas W.) The genus of the product of a group with an abelian group. **90h:20054**

Pride, Stephen J. *see* **Fennessey, Eric J., 90j:20080**

Renz, Burkhardt Geometric invariants and HNN-extensions. **90a:20075**

Servatius, Brigitte *see* **Servatius, Herman; et al., 90f:20052**

Servatius, Herman (*with* Droms, Carl; Servatius, Brigitte) Surface subgroups of graph groups. **90f:20052**

Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. **90i:20038**

Tucker, Thomas W. *see* **Pisanski, Tomaž, 90h:20054**

Ustimenko, V. A. Groups, quasigroups and Tits geometries. (Russian) **90m:20046**

Wilkens, David L. Bounded group actions on trees and hyperbolic and Lyndon length functions. **90i:20039**

Items with secondary classifications in 20F32

Armstrong, M. A. ★ Groups and symmetry. **90b:20001**

Bieri, Robert (*with* Renz, Burkhardt) Valuations on free resolutions and higher geometric invariants of groups. **90a:20106**

Brin, Matthew G. (*with* Rauschenberg, David E.; Squier, Craig C.) On the genus of the semidirect product of Z_9 by Z_3. **90d:05085**

Cohen, Marshall M. (*with* Lustig, Martin) On the dynamics and the fixed subgroup of a free group automorphism. **90m:57004**

Evans, Anthony B. Orthomorphism graphs of groups. **90d:51005**

Harvey, W. J. Modular groups and representation spaces. **90a:14037**

Hevia, Héctor (*with* Levinson, H.) Cylindric embeddings of P.S. and W.P.S. planar Cayley diagrams. **90h:05045**

Huang, Jian Hua (*with* Li, Hui Ling) Buildings, amalgams and incidence geometries. I. BN-pairs and amalgams. (Chinese. English summary) **90k:20028**

Lee, Youn W. On normal torsion-free finite index subgroups of polyhedral groups. **90d:57047**

Levinson, H. *see* **Hevia, Héctor, 90h:05045**

Li, Hui Ling *see* **Huang, Jian Hua, 90k:20028**

Lustig, Martin *see* **Cohen, Marshall M., 90m:57004**

Ol'shanskiĭ, A. Yu. Efficient embeddings of countable groups. (Russian) **90m:20032**

Paulin, Frédéric The Gromov topology on $\mathbf{R}$-trees. **90k:57015**

Rauschenberg, David E. *see* **Brin, Matthew G.; et al., 90d:05085**

Renz, Burkhardt *see* **Bieri, Robert, 90a:20106**

Scapellato, Raffaele Commutativity graphs of groups. (Italian summary) **90h:05068**

Schmeichel, Irmgard Vertauschbare Elemente in der Automorphismengruppe von kantengefärbten Graphen. [Interchangeable elements in the automorphism group of edge-colored graphs] **90d:05117**

Shee, Sze Chin (*with* Teh, H. H.) An application of groups to the topology design of connection machines. **90b:05063**

Skora, Richard K. Splittings of surfaces. **90k:57016**

Squier, Craig C. *see* **Brin, Matthew G.; et al., 90d:05085**

Teh, H. H. *see* **Shee, Sze Chin, 90b:05063**

Yoshiara, Satoshi Some geometries for J_3 and O'N. **90j:20031**

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

Mednykh, Al. D. On the number of subgroups in the fundamental group of a closed surface. **90a:20076**

Items with secondary classifications in 20F34

Chiavacci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) **90e:57002**

Droms, Carl *see* **Servatius, Herman; et al., 90f:20052**

Goldman, William M. Geometric structures on manifolds and varieties of representations. **90i:57024**

Humphries, Stephen P. (*with* Johnson, Dennis L.) A generalization of winding number functions on surfaces. **90c:57008**

Johnson, Dennis L. *see* **Humphries, Stephen P., 90c:57008**

Kato, Mitsuyoshi On some abelian complex reflection groups. **90k:32093**

Morita, Shigeyuki Families of Jacobian manifolds and characteristic classes of surface bundles. II. **90a:57041**

— On the structure and the homology of the Torelli group. **90h:57015**
Paternain, Miguel Expansive flows and the fundamental group. **90m:58160**
Servatius, Brigitte *see* **Servatius, Herman; et al., 90f:20052**
Servatius, Herman (*with* Droms, Carl; Servatius, Brigitte) Surface subgroups of graph groups. **90f:20052**
Takahashi, Moto-o On the presentations of the fundamental groups of 3-manifolds. **90g:57010**
Wei, Guofang On the fundamental groups of manifolds with almost nonnegative Ricci curvature. **90m:53058**
Yetter, David N. Markov algebras. **90h:57011**

20F36 Braid groups

Bacry, H. A crystallographic representation of the braid group. **90f:20053**
Cohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. **90a:20077**
Falk, Michael J. (*with* Randell, R.) Pure braid groups and products of free groups. **90d:20070**
Frenkel', È. V. Cohomology of the commutator subgroup of the braid group. **90h:20055**
Kluitmann, Paul Hurwitz action and finite quotients of braid groups. **90d:20071**
Kohno, Toshitake Linear representations of braid groups and classical Yang-Baxter equations. **90h:20056**
Long, D. D. On the linear representation of braid groups. II. **90j:20081**
Randell, R. *see* **Falk, Michael J., 90d:20070**
Shalashov, V. K. An equation in a free group. **90a:20078**
— A characteristic property of the commutator group of the group of colored braids. **90g:20054**

Items with secondary classifications in 20F36

Akutsu, Yasuhiro *see* **Wadati, Miki; et al., 90j:57006**
Aomoto, K. A construction of integrable differential system associated with braid groups. **90h:14017**
Birman, Joan S. (*with* Wenzl, Hans) Braids, link polynomials and a new algebra. **90g:57004**
Brieskorn, E. Automorphic sets and braids and singularities. **90a:32024**
Carr, R. R. A polynomial link invariant, braid groups and the XXZ chain. **90k:57004**
Deguchi, Tetsuo *see* **Wadati, Miki; et al., 90f:57015** *and* **90j:57006**
Fried, Michael D. Combinatorial computation of moduli dimension of Nielsen classes of covers. **90j:12007**
Hansen, Vagn Lundsgaard Polynomial covering maps. **90c:57001**
Imbo, Tom D. *see* **Sudarshan, E. C. G.; et al., 90g:81093**
Itoyama, H. (*with* Sevrin, A.) Braiding matrices of conformal blocks and coset models. **90j:81208**
Jacquemard, Alain About the effective classification of conjugacy classes of braids. **90m:20036**
Jiang, Bo Ju Application of braids to fixed points of surface maps. **90b:55001**
Kohno, Toshitake (*with* Oda, Takayuki) The lower central series of the pure braid group of an algebraic curve. **90a:14026**
— One-parameter family of linear representations of Artin's braid groups. **90d:32025**
— Hecke algebra representations of braid groups and classical Yang-Baxter equations. **90a:17016**
Makanin, G. S. An analogue of the Alexander-Markov theorem. **90d:57005**
Moishezon, B. (*with* Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in $\mathbf{C}P^2$. **90f:32014**
Møller, Jesper Michael Polynomial complements. **90e:55030**
Morton, H. R. Polynomials from braids. **90b:57003**
Oda, Takayuki *see* **Kohno, Toshitake, 90a:14026**
Orlik, Peter (*with* Solomon, Louis) Braids and discriminants. **90g:57001**
Przytycki, Józef H. t_k moves on links. **90b:57004**
Rehren, Karl-Henning (*with* Schroer, Bert) Einstein causality and Artin braids. **90g:81120**
Schroer, Bert Algebraic aspects of nonperturbative quantum field theories. **90b:81058**
— *see also* **Rehren, Karl-Henning, 90g:81120**
Sevrin, A. *see* **Itoyama, H., 90j:81208**
Shah Imbo, Chandni *see* **Sudarshan, E. C. G.; et al., 90g:81093**
Solomon, Louis *see* **Orlik, Peter, 90g:57001**
Sudarshan, E. C. G. (*with* Imbo, Tom D.; Shah Imbo, Chandni) Topological and algebraic aspects of quantization: symmetries and statistics. (French summary) **90g:81093**
Teicher, M. *see* **Moishezon, B., 90f:32014**
Vasil'ev, V. A. Cohomology of braid groups and the complexity of algorithms. **90i:32019**
Wadati, Miki (*with* Yamada, Yasuhiko; Deguchi, Tetsuo) Knot theory and conformal field theory: reductions relation for braid generators. **90f:57015**
— (*with* Deguchi, Tetsuo; Akutsu, Yasuhiro) Exactly solvable models and knot theory. **90j:57006**
Wenzl, Hans *see* **Birman, Joan S., 90g:57004**
Yamada, Yasuhiko *see* **Wadati, Miki; et al., 90f:57015**

20F38 Other groups related to topology or analysis

Wood, Jay A. Spinor groups and algebraic coding theory. **90i:20040**

Items with secondary classifications in 20F38

Arteaga, Carlos Centralizers of immersions of the circle. **90k:58099**
Beukers, F. (*with* Heckman, Gert) Monodromy for the hypergeometric function ${}_nF_{n-1}$. **90f:11034**
Birman, Joan S. Mapping class groups of surfaces. **90g:57013**
de la Harpe, Pierre Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] **90d:22005**
Heckman, Gert *see* **Beukers, F., 90f:11034**

Hillman, J. A. Two-knot groups with torsion free abelian normal subgroups of rank two. **90a:57033**
Hinkkanen, A. The structure of certain quasisymmetric groups. **90d:30063**
Lewin, Jacques The growth function of a graph group. **90c:20040**
Rubin, Matatyahu On the reconstruction of topological spaces from their groups of homeomorphisms. **90g:54044**
Song, Ming Jie *see* **Zhang, Guang Hua**, (Not in MR)
Zhang, Guang Hua (*with* Song, Ming Jie) Groups of fixed-point-free rational automorphisms of 4-dimensional algebraic tori. (Chinese. English summary) (Not in MR)

20F40 Associated Lie structures

Labute, J. The Lie algebra associated to the lower central series of a link group and Murasugi's conjecture. **90k:20065**
Zerck, Rainer On the fixed points of the Lie ring associated with a free presentation of a finite group. **90d:20072**

Items with secondary classifications in 20F40

Adyan, S. I. (*with* Razborov, A. A.; Repin, N. N.) Upper and lower bounds for nilpotency classes of Lie algebras with Engel conditions. **90c:17015**
Razborov, A. A. *see* **Adyan, S. I.; et al., 90c:17015**
Repin, N. N. *see* **Adyan, S. I.; et al., 90c:17015**
Zel'manov, E. I. Some problems in the theory of groups and Lie algebras. **90f:17024**
Zerck, Rainer On the homology of the higher relation modules. **90f:20049**

20F45 Engel conditions

Brandl, Rolf (*with* Kappe, Luise-Charlotte) On n-Bell groups. **90c:20048**
Endimioni, Gérard Une condition suffisante pour qu'un groupe d'Engel soit nilpotent. (English summary) [A sufficient condition for an Engel group to be nilpotent] **90e:20036**
Heineken, Hermann On E-groups in the sense of Peng. **90g:20055**
Kappe, Luise-Charlotte *see* **Brandl, Rolf, 90c:20048**
Timmesfeld, F. G. A remark on a theorem of Baer. **90k:20066**

Items with secondary classifications in 20F45

Kappe, Luise-Charlotte On power margins. **90h:20034**
Zel'manov, E. I. On Engel Lie algebras. **90a:17010**

20F50 Periodic groups

Adyan, S. I. (*with* Repin, N. N.) Lower bounds on the order of maximal periodic groups of prime period. **90f:20054**
Belyaev, V. V. Groups with almost regular involution. (Russian) **90f:20055**
Chernikov, N. S. Groups that are factorizable by permutable periodic subgroups without elements of identical prime orders. (Russian) **90h:20057**
Gupta, Narain On groups in which every element has finite order. **90d:20073**
Hall, J. I. Infinite alternating groups as finitary linear transformation groups. **90a:20079**
Khukhro, E. I. Nilpotent periodic groups with an almost regular automorphism of prime order. (Russian) **90h:20058**
Kuzennyĭ, N. F. (*with* Subbotin, I. Ya.) Groups with pronormal primary subgroups. **90g:20056**
Phillips, Richard E. The structure of groups of finitary transformations. **90a:20080**
Repin, N. N. Multilinear identities in Lie rings that are associated with periodic groups. **90b:20032**
— *see also* **Adyan, S. I., 90f:20054**
Shunkov, V. P. Embedding theorems for groups with involutions and the characterization of Chernikov groups. **90g:20057**
— Groups with finite periodic part. **90g:20058**
Subbotin, I. Ya. *see* **Kuzennyĭ, N. F., 90g:20056**

Items with secondary classifications in 20F50

Chanyshev, A. D. Sandwiches in Lie algebras. (Russian) **90m:17018**
Curzio, Mario (*with* Franciosi, Silvana; de Giovanni, Francesco) On automorphisms fixing infinite subgroups of groups. **90k:20062**
Franciosi, Silvana *see* **Curzio, Mario; et al., 90k:20062**
de Giovanni, Francesco *see* **Curzio, Mario; et al., 90k:20062**
Ivanov, S. V. P. Hall's conjecture on the finiteness of verbal subgroups. (Russian) **90j:20061**
Johnson, David Lawrence (*with* Kim, A. C.) Free Fibonacci algebras. **90i:08008**
Kegel, O. H. Four lectures on Sylow theory in locally finite groups. **90c:20037**
Khukhro, E. I. Nilpotent p-groups and their automorphisms. (Russian) **90m:20024**
— A remark on periodic compact groups. **90m:22011**
Kim, A. C. *see* **Johnson, David Lawrence, 90i:08008**
Kuzennyĭ, N. F. (*with* Semko, N. N.) The structure of periodic nonabelian meta-Hamiltonian groups with an elementary commutator subgroup of rank three. **90b:20030**
— *see also* **Subbotin, I. Ya., 90c:20044**
Obraztsov, V. N. An embedding theorem for groups and its corollaries. **90g:20059**
Otal, Javier (*with* Peña, Juan Manuel) Groups with minimal conditions related to finiteness properties on conjugacy classes. **90i:20029**
Peña, Juan Manuel *see* **Otal, Javier, 90i:20029**
Polovitskiĭ, Ya. D. Locally finite groups with Chernikov conjugacy classes of infinite abelian subgroups. **90a:20073**
Schlichting, Günter On the periodicity of group operations. **90d:20008**
Semko, N. N. *see* **Kuzennyĭ, N. F., 90b:20030**
Subbotin, I. Ya. (*with* Kuzennyĭ, N. F.) Groups with a transitivity condition. (Russian) **90c:20044**
Tuzov, A. N. Complementability of subgroups in Chernikov A-groups. (Russian) **90a:2006**
Zel'manov, E. I. Some problems in the theory of groups and Lie algebras. **90f:17024**

20F60 Ordered groups [See mainly 06F15]

Items with secondary classifications in 20F60

Darnel, Michael R. (*with* Glass, A. M. W.; Rhemtulla, Akbar H.) Groups in which every right order is two-sided. **90k:06027**
Glass, A. M. W. *see* **Darnel, Michael R.; et al., 90k:06027**
Petrova, N. L. *see* **Todorinov, S. A., 90d:06028**
Rhemtulla, Akbar H. *see* **Darnel, Michael R.; et al., 90k:06027**
Todorinov, S. A. (*with* Petrova, N. L.) Directionally nonorderable groups. (Russian) **90d:06028**

20F99 None of the above, but in this section

Blyth, Russell D. Rewriting products of group elements. I. **90b:20033**
— Rewriting products of group elements. II. **90b:20034**
— (*with* Robinson, Derek J. S.) Recent progress on rewritability in groups. **90b:20035**
— (*with* Rhemtulla, Akbar H.) Rewritable products in FC-by-finite groups. **90d:20074**
Kim, Pan Soo (*with* Rhemtulla, Akbar H.) Permutable word products in groups. **90h:20059**
Li, Hong Xing (*with* Wang, Pei Zhuang) The power group. (Chinese. English summary) **90h:20060**
Maj, Mercede Some remarks on groups with permutable subgroup products. **90h:20061**
Obraztsov, V. N. An embedding theorem for groups and its corollaries. **90g:20059**
Rhemtulla, Akbar H. *see* **Blyth, Russell D., 90d:20074** *and* **Kim, Pan Soo, 90h:20059**
Robinson, Derek J. S. *see* **Blyth, Russell D., 90b:20035**
Wang, Pei Zhuang *see* **Li, Hong Xing, 90h:20060**

Items with secondary classifications in 20F99

Birget, Jean-Camille (*with* Rhodes, John) Group theory via global semigroup theory. **90a:20124**
Dhombres, Jean Some recent applications of functional equations. **90e:39015**
Dror Farjoun, Emmanuel (*with* Orr, K.; Shelah, Saharon) Bousfield localization as an algebraic closure of groups. **90j:55016**
Fraenkel, A. S. The use and usefulness of numeration systems. **90k:68057**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) ★ Допустимые множества в теории групп. (Russian) [Admissible sets in group theory] **90j:03065**
Ol'shanskiĭ, A. Yu. Efficient embeddings of countable groups. (Russian) **90m:20032**
Orr, K. *see* **Dror Farjoun, Emmanuel; et al., 90j:55016**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 90j:03065**
Rhodes, John *see* **Birget, Jean-Camille, 90a:20124**
Shelah, Saharon *see* **Dror Farjoun, Emmanuel; et al., 90j:55016**
Strambach, Karl Partitions of Lie groups and algebraic groups. **90a:22007**
Vovsi, Samuel M. Critical multi-operator groups. **90c:20036**

20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

Akin, Kaan (*with* Buchsbaum, David A.) Characteristic-free representation theory of the general linear group. II. Homological considerations. **90e:20037**
Andersen, Henning Haahr (*with* Kaneda, Masaharu) Loewy series of modules for the first Frobenius kernel in a reductive algebraic group. **90h:20062**
Bai, Yuan Huai Composition factors of sheaf cohomology groups on G/B. (Chinese. English summary) **90b:20036**
— (*with* Wang, Jian Pan; Wen, Ke Xin) Translation and cancellation of socle series patterns. **90a:20081**
— Composition factors with multiplicity 1 of sheaf cohomology groups on G/B. (Chinese) **90g:20060**
— The decomposition pattern and socle series of $H^0(\lambda)$ in A_2 nongeneric position. (Chinese) **90j:20082**
Broué, Michel (*with* Michel, Jean) Blocs et séries de Lusztig dans un groupe réductif fini. [Blocks and Lusztig series in a finite reductive group] **90b:20037**
Brylinski, Ranee Kathryn Stable calculus of the mixed tensor character. I. **90k:20067**
Buchsbaum, David A. Jacobi-Trudi and Giambelli identities in characteristic-free form. **90d:20075**
— *see also* **Akin, Kaan, 90e:20037**
Cabanes, Marc Extension groups for modular Hecke algebras. **90h:20063**
Carter, R. W. The relation between irreducible characters and conjugacy classes in finite groups of Lie type. **90d:20076**
Curtis, Charles W. Representations of Hecke algebras. **90m:20047**
Doty, Stephen Character formulas and Frobenius subgroups of algebraic groups. **90i:20041**
— Filtrations of rational representations of reductive groups of semisimple rank 1. **90i:20042**
Douglass, J. Matthew Cells and the reflection representation of Weyl groups and Hecke algebras. **90g:20061**
Horvath, Jozsef Bruhat decomposition in unipotent actions. **90i:20043**
Humphreys, J. E. Generic Cartan invariants for Frobenius kernels and Chevalley groups. **90h:20064**
Kaneda, Masaharu Extensions of modules for infinitesimal algebraic groups. **90c:20049**
— *see also* **Andersen, Henning Haahr, 90h:20062**
Kasai, Shin-ichi A classification of reductive prehomogeneous vector spaces with two irreducible components. I. **90e:20038**
— A classification of a certain class of reductive prehomogeneous vector spaces. **90h:20065**
— Universal transitivity of certain classes of reductive prehomogeneous vector spaces. **90i:20044**
Kempf, George R. The number of invariants. **90c:20050**
Littelmann, Peter Koreguläre und äquidimensionale Darstellungen. (English summary) [Coregular and equidimensional representations] **90e:20039**
Lusztig, George On the representations of reductive groups with disconnected centre. **90j:20083**
— Cells in affine Weyl groups. IV. **90k:20068**
Michel, Jean *see* **Broué, Michel, 90b:20037**
Mowbray, Miranda The submodule structure of characteristic p Verma modules for groups of type A_1. **90j:20084**
Polo, Patrick Modules associés aux variétés de Schubert. (English summary) [Modules associated with Schubert varieties] **90f:20056**
Popov, V. L. Some applications of algebra of functions on G/U. **90m:20048**
Sawada, Hideki On a certain covariant representation functor and irreducible modules of Chevalley groups. **90j:20085**
Shinoda, Ken-ichi Introduction to the theory of representations of finite reductive groups. (Spanish) **90j:20086**
Soto-Andrade, Jorge Produits scalaires L^2 généralisés. [Generalized L^2 scalar products] **90j:20087**
Spaltenstein, N. Polynomials over local fields, nilpotent orbits and conjugacy classes in Weyl groups. **90k:20069**
Steinberg, Robert Tensor product theorems. **90d:20077**
Sullivan, John B. On the second socle level of induced modules for algebraic groups. **90j:20088**
Teranishi, Yasuo Universal induced characters and restriction rules for the classical groups. **90m:20049**
Testerman, Donna M. Irreducible subgroups of exceptional algebraic groups. **90a:20082**
— A note on composition factors of Weyl modules. **90a:20083**
Timoshin, A. S. Representations of zigzag network subgroups. **90i:20045**
Vavilov, N. A. The geometry of long root subgroups in Chevalley groups. **90d:20078**
Vella, David C. A cohomological characterization of parabolic subgroups of reductive algebraic groups. **90d:20079**
Wang, Jian Pan Partial orderings on affine Weyl groups. (Chinese. English summary) **90a:20084**
— On the cyclicity and cocyclicity of G-modules. **90c:20051**
— *see also* **Bai, Yuan Huai; et al., 90a:20081**
Wen, Ke Xin The composition of intertwining homomorphisms. **90d:20080**
— *see also* **Bai, Yuan Huai; et al., 90a:20081**
Yamane, Hiroyuki Irreducible projective modules of the Hecke algebras of a finite Coxeter group. **90k:20070**
Ye, Jia Chen Filtrations of principal indecomposable modules of Frobenius kernels of semisimple algebraic groups. (Chinese. English summary) **90g:20062**
— Some properties of the polynomials $Q_{A,C}$. (Chinese. English summary) **90a:20085**
— Cartan invariants of finite groups of Lie type. **90a:20086**
— On the inverse Kazhdan-Lusztig polynomials $Q_{A,C}$. (Chinese) **90k:20071**

Items with secondary classifications in 20G05

Akin, Kaan (*with* Buchsbaum, David A.) Representations, resolutions and intertwining numbers. **90i:13013**
— Resolutions of representations. **90c:17010**
Bhosle, Usha (*with* Ramanathan, Annamalai) Moduli of parabolic G-bundles on curves. **90h:14018**
(Billuard, J.-R.) *see* **Dixmier, Jacques, 90m:15047**
Brylinski, Ranee Kathryn Limits of weight spaces, Lusztig's q-analogs, and fiberings of adjoint orbits. **90g:17011**
Buchsbaum, David A. *see* **Akin, Kaan, 90i:13013**
Cline, E. (*with* Parshall, B.; Scott, Leonard L.) Algebraic stratification in representation categories. **90d:18004**
— (*with* Parshall, B.; Scott, Leonard L.) Finite-dimensional algebras and highest weight categories. **90d:18005**
Daszkiewicz, Andrzej On the invariant ideals of the symmetric algebra $S.(V \oplus \Lambda^2 V)$. **90k:22023**
Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] **90m:15047**
Doty, Stephen The strong linkage principle. **90d:20081**
Flath, Daniel E. An analogue of the Weyl algebra. **90a:22012**
Ginzburg, V. A. Geometrical aspects of representation theory. **90e:22028**
Gow, R. Even unimodular lattices associated with the Weil representation of the finite symplectic group. **90f:20009**
Gurbanov, Zh. *see* **Manturov, O. V., 90b:17007**
Gustafson, Robert A. Invariant theory and special functions. **90g:22029**
Helminck, A. G. Algebraic groups with a commuting pair of involutions and semisimple symmetric spaces. **90a:17011**
Howe, Roger E. *The classical groups* and invariants of binary forms. **90e:22022**
— Remarks on classical invariant theory. **90h:22015a**
— Erratum to: "Remarks on classical invariant theory". **90h:22015b**
James, Donald G. Representations of anisotropic unitary groups. II. **90k:11041**
— Representations of anisotropic classical groups. **90e:11055**
Jones, Lenny K. Centers of generic Hecke algebras. **90d:20030**
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Kurano, Kazuhiko The first syzygies of determinantal ideals. **90h:14071**
Lawther, Ross Ian (*with* Saxl, Jan) On the actions of finite groups of Lie type on the cosets of subfield subgroups and their twisted analogues. **90e:20042**
Lü, Xiao Yun^2 Barycentric coordinates and irreducible representations of the group SU_n. (Chinese. English summary) **90j:22015**
Lusztig, George Cuspidal local systems and graded Hecke algebras. I. **90e:22029**
— Representations of affine Hecke algebras. **90k:22028**

Manturov, O. V. (*with* Gurbanov, Zh.) A class of algebras with an irreducible group of automorphisms. (Russian. English summary) **90b:17007**

Mathieu, Olivier Formules de caractères pour les algèbres de Kac-Moody générales. (English summary) [Character formulas for general Kac-Moody algebras] **90d:17024**

— Construction d'un groupe de Kac-Moody et applications. [Construction of a Kac-Moody group and applications] **90f:17012**

— Filtrations of B-modules. **90k:14056**

Matsuzawa, Jun-ichi On the generalized exponents of classical Lie groups. **90b:22021**

Muro, Masakazu A note on the holonomic system of invariant hyperfunctions on a certain prehomogeneous vector space. **90i:22027**

Pantoja, José (*with* Soto-Andrade, Jorge) Groupes de Grassmann-Heisenberg et représentations de Weil généralisées pour SL$_n$, n pair. (English summary) [Grassmann-Heisenberg groups and generalized Weil representations for SL$_n$, n even] **90i:22031**

Panyushev, D. I. Complexity and rank of homogeneous spaces and the co-isotropy representation. **90j:14072**

Parshall, B. *see* **Cline, E.; et al., 90d:18004** *and* **90d:18005**

Petrie, Ted *see* **Kraft, Hanspeter; et al., 90b:14057**

Ramanathan, Annamalai *see* **Bhosle, Usha, 90h:14018**

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— Irreducible components of the nullcone. **90g:14031**

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Shi, Jian Yi Some recent developments on the cells of affine Weyl groups. **90a:20101**

Soergel, W. n-cohomology of simple highest weight modules on walls and purity. **90m:22037**

— Universelle versus relative Einhüllende: Eine geometrische Untersuchung von Quotienten von universellen Einhüllenden halbeinfacher Lie-Algebren. [Universal versus relative enveloping algebras: a geometric investigation of quotients of universal enveloping algebras of semisimple Lie algebras] **90k:17034**

Soto-Andrade, Jorge *see* **Pantoja, José, 90i:22031**

Stembridge, John R. A combinatorial theory for rational actions of GL$_n$. (*see* **90a:14002**)

Strichartz, Robert S. Linear algebra of curvature tensors and their covariant derivatives. **90c:53048**

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Völklein, Helmut The 1-cohomology of the adjoint module of a Chevalley group. **90b:20038**

Wehlau, David L. Some recent results on the Popov conjecture. **90m:14044**

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Unipotent orbits and representations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**

20G10 Cohomology theory

Betley, Stanisław Vanishing theorems for homology of Gl$_n R$. **90j:20089**

Doty, Stephen The strong linkage principle. **90d:20081**

Friedlander, Eric M. Erratum: "Multiplicative stability for the cohomology of finite Chevalley groups" [Comment. Math. Helv. 63 (1988), no. 1, 108–113; MR 89b:20092]. **90c:20052**

Kroll, Ove The cohomology of the finite general linear group. **90h:20066**

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Arlettaz, Dominique Torsion classes in the cohomology of congruence subgroups. **90j:20097**

Bai, Yuan Huai (*with* Wang, Jian Pan; Wen, Ke Xin) Translation and cancellation of socle series patterns. **90a:20081**

Chernousov, V. I. The Hasse principle for groups of type E_8. **90m:11055**

Doty, Stephen Filtrations of rational representations of reductive groups of semisimple rank 1. **90i:20042**

Hitta, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**

Kaneda, Masaharu Extensions of modules for infinitesimal algebraic groups. **90c:20049**

Levine, Harold I. A lower bound for the topological complexity of Poly(D, n). **90i:68050**

Ronan, M. A. Duality for presheaves on chamber systems, and a related chain complex. **90c:17014**

Vella, David C. A cohomological characterization of parabolic subgroups of reductive algebraic groups. **90d:20079**

Wang, Jian Pan Inverse limits of affine group schemes. **90g:14029**

— *see also* **Bai, Yuan Huai; et al., 90a:20081**

Wen, Ke Xin *see* **Bai, Yuan Huai; et al., 90a:20081**

20G15 Linear algebraic groups over arbitrary fields

Ambrosiewicz, Jan Products of sets in linear groups. **90m:20050**

Arakelyan, F. O. Distribution of subgroups in the general linear group over the quotient field of a noncommutative domain of principal ideals. (Russian) (*see* **90h:20005**)

Borovik, A. V. Finite subgroups of simple algebraic groups. (Russian) **90m:20051**

Chen, Zhi Jie A classification of irreducible prehomogeneous vector spaces over an algebraically closed field of characteristic p. II. (Chinese) **90g:20063**

Cheng, Chon Hu Classical groups and generalized simple groups of Lie type. **90f:20057**

Corredor, Luis Jaime Bad groups of finite Morley rank. **90k:20074**

Đoković, Dragomir Ž. An elementary proof of the structure theorem for connected solvable affine algebraic groups. **90a:20087**

Doty, Stephen Submodules of symmetric powers of the natural module for GL$_n$. **90f:20058**

Helminck, A. G. On the orbits of symmetric spaces under the action of parabolic subgroups **90f:20059**

Horvath, Jozsef A dimension theorem for vectors fixed by unipotent groups. **90k:20072**

Kariyama, Kazutoshi On conjugacy classes of maximal tori in classical groups. **90j:20090**

Korobov, A. A. Criteria for the existence of periodic and solvable complements of normal subgroups in linear algebraic groups. (Russian) **90m:20052**

Laschinger, Bertold Automorphismengruppen freier Moduln von unendlichem Rang. (English summary) [Automorphism groups of free modules of infinite rank] **90h:20067**

Li, Shang Zhi Overgroups of certain subgroups in the classical groups over division rings. **90c:20053**

— Irreducible subgroups of SL(n, K) generated by root subgroups. **90h:20068**

Nesin, Ali Nonsolvable groups of Morley rank 3. **90k:20073**

Parshall, B. Finite-dimensional algebras and algebraic groups. **90j:20091**

Seitz, Gary M. Maximal subgroups of exceptional groups. **90c:20054**

Sysak, Ya. P. Products of almost abelian groups. (Russian) **90c:20055**

Testerman, Donna M. A construction of certain maximal subgroups of the algebraic groups E_6 and F_4. **90d:20082**

Vavilov, N. A. Subgroups of the special linear group which contain the group of diagonal matrices. IV. **90a:20088**

— Root semisimple elements and triples of root unipotent subgroups in Chevalley groups. (Russian) **90i:20046**

— The relative arrangement of long and short root subgroups in a Chevalley group. **90k:20075**

Videla, Carlos R. On the Mal′cev correspondence. **90i:20047**

Völklein, Helmut The 1-cohomology of the adjoint module of a Chevalley group. **90b:20038**

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Borovoĭ, M. V. Abstract simplicity of groups of type D_n over number fields. **90b:11036**

Brown, Kenneth S. ★ Buildings. **90e:20001**

Carter, R. W. ★ Simple groups of Lie type. **90g:20001**

Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) **90k:20077**

Cline, E. (*with* Parshall, B.; Scott, Leonard L.) Duality in highest weight categories. **90g:17014**

(Dieudonné, Jean) *see* **Hahn, Alexander J., 90i:20002**

Grundhöfer, Theo (*with* Zassenhaus, H.) A criterion for infinite non-Dickson nearfields of dimension two. **90e:12023**

Hahn, Alexander J. (*with* O'Meara, O. Timothy) ★ The classical groups and K-theory. **90i:20002**

Lakshmibai, V. (*with* Weyman, Jerzy) Multiplicities of points on a Schubert variety in a minuscule G/P. (French summary) **90a:14073**

Monastyrnyĭ, A. P. (*with* Yanchevskiĭ, V. I.) On the Whitehead groups and the Kneser-Tits conjecture for spinor groups. **90i:11040**

O'Meara, O. Timothy *see* **Hahn, Alexander J., 90i:20002**

Parshall, B. *see* **Cline, E.; et al., 90g:17014**

Revoy, Philippe Formes trilinéaires alternées de rang 7. (English summary) [Alternating trilinear forms of rank 7] **90c:15010**

Richardson, R. W. Irreducible components of the nullcone. **90g:14031**

Sawada, Hideki On a certain covariant representation functor and irreducible modules of Chevalley groups. **90j:20085**

Scott, Leonard L. *see* **Cline, E.; et al., 90g:17014**

Weyman, Jerzy *see* **Lakshmibai, V., 90a:14073**

Yanchevskiĭ, V. I. *see* **Monastyrnyĭ, A. P., 90i:11040**

Zassenhaus, H. *see* **Grundhöfer, Theo, 90e:12023**

20G20 Linear algebraic groups over the reals, the complexes, the quaternions

Cohen, Arjeh M. (*with* Griess, Robert L., Jr.) On finite simple subgroups of the complex Lie group of type E_8. **90a:20089**

Ellers, Erich W. (*with* Malzan, Jerry) Transvections as generators of the special linear group over the quaternions. **90g:20064**

Griess, Robert L., Jr. *see* **Cohen, Arjeh M., 90a:20089**

Hanlon, Phil (*with* Wales, David) Computing the discriminants of Brauer's centralizer algebras. **90k:20076**

Korlyukov, A. V. Finite linear groups that are generated by quadratic elements of order 4 and 3. (Russian) **90i:20048**

Malzan, Jerry *see* **Ellers, Erich W., 90g:20064**

Scott, Leonard L. Derived categories and algebraic groups. **90f:20060**

Wales, David *see* **Hanlon, Phil, 90k:20076**

Xi, Nan Hua Induced cells. **90d:20083**

Zalesskiĭ, A. E. Eigenvalues of matrices of finite linear groups and representation theory. (Russian) **90j:20092**

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Aslaksen, Helmer Laws of trigonometry on SU(3). **90d:53047**

Beukers, F. (*with* Heckman, Gert) Monodromy for the hypergeometric function $_nF_{n-1}$. **90f:11034**

Damphousse, Pierre The arithmetic of powers and roots in Gl$_2$(C) and Sl$_2$(C). **90j:15034**

Hauser, H. (*with* Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. **90c:32041**

Heckman, Gert *see* **Beukers, F., 90f:11034**

Müller, Gerd *see* **Hauser, H., 90c:32041**

Panyushev, D. I. Complexity and rank of homogeneous spaces and the co-isotropy representation. **90j:14072**

Pasini, Antonio On a theorem by Aschbacher. **90b:51007**

Pillay, A. An application of model theory to real and p-adic algebraic groups. **90m:03061**

Zieschang, Paul-Hermann The nonexistence of certain geometries of type C_3. **90b:51008**

20G25 Linear algebraic groups over local fields and their integers

Grundhöfer, Theo Sharply transitive linear groups and nearfields over p-adic fields. **90b:20039**
Li, Fu An The local behavior of $(\varphi, \alpha, \sigma)$ systems. (Chinese) (Not in MR)
Mason, A. W. On GL_2 of a local ring in which 2 is not a unit. II. **90a:20090**
Zhang, Yong Zheng Automorphisms of O_n^+ over commutative semilocal rings. (Chinese) **90f:20061**
— Two-dimensional unitary groups with nonzero Witt index over commutative semilocal rings. (Chinese. English summary) **90h:20069**

Items with secondary classifications in 20G25

Corwin, Lawrence Representations of reductive p-adic groups: a survey. **90i:22028**
(Ritter, Jürgen) *see* **Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193**
Saito, Hiroshi[1] On a Hasse principle for σ-conjugacy. **90m:22042**

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20G30 Linear algebraic groups over global fields and their integers

Arregi, Jesús María *see* **Vera López, Antonio, 90k:20078**
Chernousov, V. I. Groups of rational points of algebraic groups over algebraically nonclosed fields. (Russian) **90k:20077**
— Projective simplicity of some groups of rational points over algebraic number fields. **90g:20065**
Hahn, Alexander J. The finite presentability of linear groups. **90f:20062**
Tomanov, G. M. Congruence subgroup problem for groups of type G_2. **90i:20049**
Vera López, Antonio (*with* Arregi, Jesús María) Classes de conjugaison dans les p-sous-groupes de Sylow de $GL(n, q)$. (English summary) [Conjugacy classes in Sylow p-subgroups of $GL(n, q)$] **90k:20078**

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Fine, Benjamin ★ Algebraic theory of the Bianchi groups. **90h:20002**
Saito, Hiroshi[1] On a Hasse principle for σ-conjugacy. **90m:22042**
Tomanov, G. M. On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. **90m:11054**
Voskresenskiĭ, V. E. Maximal tori without affect in semisimple algebraic groups. (Russian) **90a:11046**

20G35 Linear algebraic groups over adèles and other rings and schemes

Abe, Eiichi (*with* Hurley, James F.) Centers of Chevalley groups over commutative rings. **90e:20040**
Feng, Hong Automorphisms of $O_n^{+[2]}$ over local rings. (Chinese. English summary) **90g:20066**
Huo, Yuan Ji *see* **Zou, Li Guo, 90g:20068**
Hurley, James F. *see* **Abe, Eiichi, 90e:20040**
Li, Fu An The question of normal subgroups and congruence subgroups of classical groups. (Chinese. English summary) **90a:20091**
Nesterenko, Yu. P. (*with* Suslin, A. A.) Homology of the general linear group over a local ring, and Milnor's K-theory. **90a:20092**
Panin, I. A. Stabilization for orthogonal and symplectic algebraic K-theories. (Russian) **90g:20067**
Petechuk, V. M. Homomorphisms of linear groups over rings. **90f:20063**
Plotkin, E. B. *see* **Vavilov, N. A.; et al., 90j:20093**
Ren, Hong Shuo (*with* Wan, Zhe Xian; Wu, Xiao Long) Isomorphisms of linear groups over skew fields. **90c:20056**
Stepanov, A. V. *see* **Vavilov, N. A.; et al., 90j:20093**
Suslin, A. A. *see* **Nesterenko, Yu. P., 90a:20092**
Vaserstein, L. N. Normal subgroups of classical groups over rings and gauge groups. **90e:20041**
— Normal subgroups of symplectic groups over rings. **90f:20064**
Vavilov, N. A. Subgroups of the general linear group over a Dedekind ring of arithmetic type. (Russian) **90a:20093**
— Linear groups that are generated by one-parameter groups of one-dimensional transformations. **90c:20057**
— (*with* Plotkin, E. B.; Stepanov, A. V.) Calculations in Chevalley groups over commutative rings. **90j:20093**
Wan, Zhe Xian *see* **Ren, Hong Shuo; et al., 90c:20056**
Wu, Xiao Long *see* **Ren, Hong Shuo; et al., 90c:20056**
Zhang, Yong Zheng Automorphisms of $PO_n^+(V)$ over decomposable φ-surjective rings. (Chinese. English summary) **90c:20058**
— Automorphisms of $G_n(R)$ over a class of rings. (Chinese) **90j:20094**
Zou, Li Guo (*with* Huo, Yuan Ji) Expressing simi symplectic transvections as products of symplectic transvections. (Chinese. English summary) **90g:20068**

Items with secondary classifications in 20G35

Li, Fu An (*with* Li, Zun Xian) The isomorphisms of GL_3 over commutative rings. **90g:20076**
— (*with* Ren, Hong Shuo) The automorphisms of two-dimensional linear groups over commutative rings. **90e:20043**
— The structure of orthogonal groups over arbitrary commutative rings. **90k:20084**
Li, Zun Xian *see* **Li, Fu An, 90g:20076**
Minchev, Kh. P. Strong approximation for varieties over an algebraic number field. (Russian. English summary) **90a:11065**
Ren, Hong Shuo *see* **Li, Fu An, 90e:20043**
Terasoma, Tomohide Constructible sheaves associated to Whittaker functions. **90b:11121**
Tomanov, G. M. On the congruence-subgroup problem for some anisotropic algebraic groups over number fields. **90m:11054**

20G40 Linear algebraic groups over finite fields

Ch'ên, Yung Ch'iu *see* **Chu, Hua; et al., 90b:20040**
Chu, Hua (*with* Kang, Ming Chang; Ch'ên, Yung Ch'iu) The invariants of projective linear group actions. **90b:20040**
Fong, Paul (*with* Srinivasan, Bhama) The blocks of finite classical groups. **90f:20065**
Kang, Ming Chang *see* **Chu, Hua; et al., 90b:20040**
Lawther, Ross Ian (*with* Saxl, Jan) On the actions of finite groups of Lie type on the cosets of subfield subgroups and their twisted analogues. **90e:20042**
Phạm Việt Hùng A lower bound for the order of maximal commutative p-subgroups of the group $GL(n, F_q)$. (Russian. English summary) **90f:20066**
Roloff, Hartmut Hallsche Untergruppen endlicher linearer Gruppen. [Hall subgroups of finite linear groups] (Not in MR)
Saxl, Jan *see* **Lawther, Ross Ian, 90e:20042**
Seitz, Gary M. Cross-characteristic embeddings of finite groups of Lie type. **90k:20079**
Srinivasan, Bhama *see* **Fong, Paul, 90f:20065**
Waterhouse, William C. Two generators for the general linear groups over finite fields. **90g:20069**
Zalesskiĭ, A. E. Eigenvalues of matrices of complex representations of finite groups of Lie type. **90d:20084**

Items with secondary classifications in 20G40

Bagchi, Bhaskar (*with* Narasimha Sastry, N. S.) Intersection pattern of the classical ovoids in symplectic 3-space of even order. **90k:51015**
Bannai, Eiichi (*with* Song, Sung-Yell) The character tables of Paige's simple Moufang loops and their relationship to the character tables of $PSL(2, q)$. **90b:20057**
Campbell, C. M. (*with* Robertson, E. F.; Williams, P. D.) On presentations of $PSL(2, p^n)$. **90j:20066**
Carter, R. W. ★ Simple groups of Lie type. **90g:20001**
Feshbach, Mark (*with* Priddy, Stewart) Stable splittings associated with Chevalley groups. I, II. **90d:55026**
Fleischmann, Peter The complexities and rank varieties of the simple modules of $({}^2A_2)(q^2)$ in the natural characteristic. **90d:20023**
Jones, Lenny K. Centers of generic Hecke algebras. **90d:20030**
Liebeck, Martin W. (*with* Praeger, Cheryl E.; Saxl, Jan) The maximal factorizations of the finite simple groups and their automorphism groups. **90k:20048**
Lozanov, Chavdar *see* **Russeva, Assia P., 90g:51017**
Lusztig, George On the representations of reductive groups with disconnected centre. **90j:20083**
Narasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 90k:51015**
Praeger, Cheryl E. *see* **Liebeck, Martin W.; et al., 90k:20048**
Priddy, Stewart *see* **Feshbach, Mark, 90d:55026**
(Ritter, Jürgen) *see* **Representation theory and number theory in connection with the local Langlands conjecture, 90m:11193**
Robertson, E. F. (*with* Williams, P. D.) Efficient presentations of the groups $PSL(2, 2p)$ and $SL(2, 2p)$. **90a:20065**
— *see also* **Campbell, C. M.; et al., 90j:20066**
Russeva, Assia P. (*with* Lozanov, Chavdar) On the geometry of a cyclic subgroup of the Suzuki group Sz(8). (Bulgarian summary) **90g:51017**
Saxl, Jan *see* **Liebeck, Martin W.; et al., 90k:20048**
Seitz, Gary M. Maximal subgroups of exceptional groups. **90c:20054**
Shamash, Josephine Brauer trees for blocks of cyclic defect in the groups $G_2(q)$ for primes dividing $q^2 \pm q + 1$. **90m:20016**
Shi, Wu Jie A new characterization of some simple groups of Lie type. **90c:20022**
Sin, Peter The Green ring and modular representations of finite groups of Lie type. **90d:20028**
Song, Sung-Yell *see* **Bannai, Eiichi, 90b:20057**
Sullivan, John B. On the second socle level of induced modules for algebraic groups. **90j:20088**
Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. **90i:20038**
Williams, P. D. *see* **Robertson, E. F., 90a:20065** *and* **Campbell, C. M.; et al., 90j:20066**
Ye, Jia Chen Cartan invariants of finite groups of Lie type. I. **90j:20022**

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20G45 Applications to physics; explicit representations

Items with secondary classifications in 20G45

Aroyo, M. I. (*with* Kotzev, J. N.; Dirl, R.; Kasperkovitz, P.; Davies, B. L.) The auxiliary group approach to the reduction of multiple Kronecker products and to chain-adapted reducing matrices. **90j:20102**
— *see also* **Kotzev, J. N.; et al., 90j:22027**
Birman, Joseph L. *see* **Goshen, Shmuel Y., (90i:81003)**
Chen, Jin Quan (*with* Wang, Pei Ning; Lü, Zi Min; Wu, Xiong Biao) ★ Tables of the Clebsch-Gordan, Racah and subduction coefficients of SU(n) groups. **90j:22025**
Davies, B. L. (*with* Dirl, R.) Various classification schemes for irreducible space group representations. **90j:20103**
— *see also* **Aroyo, M. I.; et al., 90j:20102** *and* **Dirl, R., 90j:20106**
Dirl, R. (*with* Davies, B. L.) Physical applications of compatibility relations for space group Clebsch-Gordan coefficients. **90j:20106**
— *see also* **Aroyo, M. I.; et al., 90j:20102; Davies, B. L., 90j:20103** *and* **Kotzev, J. N.; et al., 90j:22027**
Glockner, Peter (*with* von Waldenfels, Wilhelm) The relations of the noncommutative coefficient algebra of the unitary group. **90m:16006**
Goodman, Roe (*with* Wallach, Nolan R.) Higher-order Sugawara operators for affine Lie algebras. **90e:17030**
Goshen, Shmuel Y. (*with* Birman, Joseph L.) Tensorial properties distinguishing icosahedral symmetry from cubic or isotropic SO(3) symmetry. (*see* **90i:81003**)
Kasperkovitz, P. *see* **Aroyo, M. I.; et al., 90j:20102** *and* **Kotzev, J. N.; et al., 90j:22027**
Kotzev, J. N. (*with* Peev, M. K.; Aroyo, M. I.; Dirl, R.; Kasperkovitz, P.) Auxiliary group approach for group-subgroup related transformation matrices. **90j:22027**
— *see also* **Aroyo, M. I.; et al., 90j:20102**
Levitov, L. S. Icosahedral quasicrystals with continuous phasons. (French summary) **90k:82077**
Lü, Zi Min *see* **Chen, Jin Quan; et al., 90j:22025**
Pantoja, José (*with* Soto-Andrade, Jorge) Groupes de Grassmann-Heisenberg et représentations de Weil généralisées pour SL$_n$, n pair. (English summary) [Grassmann-Heisenberg groups and generalized Weil representations for SL$_n$, n even] **90i:22031**
Peev, M. K. *see* **Kotzev, J. N.; et al., 90j:22027**
Soto-Andrade, Jorge *see* **Pantoja, José, 90i:22031**
von Waldenfels, Wilhelm *see* **Glockner, Peter, 90m:16006**
Wallach, Nolan R. *see* **Goodman, Roe, 90e:17030**
Wang, Pei Ning *see* **Chen, Jin Quan; et al., 90j:22025**
Wu, Xiong Biao *see* **Chen, Jin Quan; et al., 90j:22025**

20G99 None of the above, but in this section

Augustine, M. K. (*with* Putcha, Mohan S.) Maps into Dynkin diagrams arising from regular monoids. **90j:20095**
Putcha, Mohan S. Linear algebraic monoids and G/H embeddings. **90j:20096**
— *see also* **Augustine, M. K., 90j:20095**

Items with secondary classifications in 20G99

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Krupetskiĭ, S. L. (*with* Lyubin, V. A.) Linear subgroups that contain an orthogonal group. (Russian) **90b:20042**
Lyubin, V. A. *see* **Krupetskiĭ, S. L., 90b:20042**
Moran, Siegfried Some subgroups of GL_3. **90a:20103**
Rosenberger, Gerhard Minimal generating systems of a subgroup of $\mathrm{SL}(2, \mathbf{C})$. **90g:20075**
Satarov, Zh. S. Defining relations in a degenerate elementary unitary group over a quadratic extension of an ordered Euclidean field. **90a:20104**
Schwarz, Binyamin (*with* Zaks, Abraham) On geometries of the projective matrix space. **90k:20083**
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Cheng, Chon Hu Classical groups and generalized simple groups of Lie type. **90f:20057**
Ellers, Erich W. (*with* Malzan, Jerry) Transvections as generators of the special linear group over the quaternions. **90g:20064**
Endo, Shizuo On rings of invariants of finite linear groups. **90f:13006**
Hall, J. I. Infinite alternating groups as finitary linear transformation groups. **90a:20079**
Kim, Jin Bai (*with* Baartmas, Alphonse) On *n*-dimensional matrix groups. **90g:15045**
Kislovskaya, N. M. A pseudo-inverse matrix and multiplicative groups of matrices. (Russian) **90m:15008**
Langer, Ulrich² (*with* Rosenberger, Gerhard) Erzeugende endlicher projektiver linearer Gruppen. [Generators of finite projective linear groups] **90h:20070**
Li, Chi-Kwong (*with* Tsing, Nam-Kiu) *G*-invariant Hermitian forms and *G*-invariant elliptical norms. **90j:15036**
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Phillips, Richard E. The structure of groups of finitary transformations. **90a:20080**
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20H25 Other matrix groups over rings

Banieqbal, B. Classification of finite subgroups of 2×2 matrices over a division algebra of characteristic zero. **90h:20073**
Li, Fu An (*with* Li, Zun Xian) The isomorphisms of GL_3 over commutative rings. **90g:20076**
— Isomorphisms of Steinberg groups over commutative rings. **90d:20088**
— The structure of orthogonal groups over arbitrary commutative rings. **90k:20084**
Li, Zun Xian *see* **Li, Fu An, 90g:20076**
Lichtman, Alexander I. On nilpotent and soluble subgroups of linear groups over fields of fractions of enveloping algebras and of group rings. I. **90j:20111**
Menal, Pere (*with* Vaserstein, L. N.) On subgroups of GL_2 over noncommutative local rings which are normalized by elementary matrices. **90k:20085**
Merzlyakov, Yu. I. Exact matrix representation of the holomorphs of the Abels groups. **90h:20074**
Narzullaev, U. Kh. Subgroups of the group $\mathrm{GL}(2, \mathbf{Z}/p^n\mathbf{Z})$ and their Serre groups. (Russian) **90f:20075**
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Vavilov, N. A. Subgroups of split orthogonal groups over a ring. **90c:20061**
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You, Hong Finite generation of hyperbolic unitary groups. (Chinese. English summary) **90b:20043**

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Conway, John Horton (*with* Sloane, N. J. A.) Low-dimensional lattices. II. Subgroups of $\mathrm{GL}(n, \mathbf{Z})$. **90a:11072**
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Liu, Chang An *see* **You, Hong, 90g:20044**
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Noritzsch, Thomas (*with* Roloff, Hartmut) Lineare Gleichungssysteme über Hauptidealringen. [Linear systems of equations over principal ideal rings] **90e:13018**
O'Meara, O. Timothy *see* **Hahn, Alexander J., 90i:20002**
Plotkin, E. B. *see* **Vavilov, N. A.; et al., 90j:20093**
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Vavilov, N. A. Linear groups that are generated by one-parameter groups of one-dimensional transformations. **90c:20057**
— (*with* Plotkin, E. B.; Stepanov, A. V.) Calculations in Chevalley groups over commutative rings. **90j:20093**
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Kosman, E. G. Normal structure of Sylow *p*-groups of the restricted linear group. (Russian) **90k:20086**
Levin, Frank (*with* Rosenberger, Gerhard) Generators of finite projective linear groups. II. **90m:20058**
Mushtaq, Q. Coset diagrams for an action of the extended modular group on the projective line over a finite field. **90j:20113**
— The extended modular group acting on the projective line over a Galois field. **90j:20114**
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Roszkowska, Ewa On the property *W* for the group $\mathrm{UT}(n, F)$. **90h:20075**

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Krieg, Aloys Hecke algebras. **90m:16024**

Phạm Việt Hùng A lower bound for the order of maximal commutative p-subgroups of the group $GL(n, F_q)$. (Russian. English summary) **90f:20066**

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Terao, Hiroaki The Jacobians and the discriminants of finite reflection groups. **90m:32028**

20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Berrick, A. J. Universal groups, binate groups and acyclicity. **90c:20063**

Betley, Stanisław Splitting theorem for homology of $GL(R)$. **90d:20089**

Bieri, Robert (*with* Renz, Burkhardt) Valuations on free resolutions and higher geometric invariants of groups. **90a:20106**

Conduché, Daniel (*with* Ellis, G. J.) Quelques propriétés homologiques des modules précroisés. [Some homological properties of precrossed modules] **90i:20053**

Ellis, G. J. (*with* Rodríguez-Fernández, C.) An exterior product for the homology of groups with integral coefficients modulo p. (French summary) **90k:20087**

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Greenberg, Peter Homology of some groups of pl-homeomorphisms of the line. **90i:20054**

Hannebauer, Torsten Relation modules of amalgamated free products and HNN extensions. **90m:20059**

Horadam, K. J. The cohomology ring of a combinatorially aspherical group. **90j:20115**

Huebschmann, Johannes Perturbation theory and free resolutions for nilpotent groups of class 2. **90m:20060**

— Cohomology of nilpotent groups of class 2. **90m:20061**

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Kropholler, P. H. (*with* Roller, M. A.) Splittings of Poincaré duality groups. II. **90d:20090a**

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Akin, Kaan (*with* Buchsbaum, David A.) Characteristic-free representation theory of the general linear group. II. Homological considerations. **90e:20037**

Assadi, Amir H. Varieties in finite transformation groups. **90e:57066**

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Bergman, George M. Embedding arbitrary algebras in groups. **90a:20049**

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Jeandupeux, Denis Sur la cohomologie entière du groupe linéaire général et du groupe linéaire spécial sur un corps fini. (English summary) [On the integral cohomology of the general linear and special linear groups over a finite field] **90i:20055**

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Wiegold, James *see* **Curzio, Mario; et al., 90h:20053**

Zerck, Rainer On the homology of the higher relation modules. **90f:20049**

20J06 Cohomology of finite groups

Adem, Alejandro Cohomological exponents of ZG-lattices. **90b:20046**

Duflot, Jeanne A Hopf algebra associated to the cohomology of the symmetric groups. **90a:20107**

Evens, Leonard (*with* Feshbach, Mark) Carlson's theorem on varieties and transfer. **90a:20108**

— (*with* Priddy, Stewart) The ring of universally stable elements. **90k:20089**

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Kawai, Hiroaki On module varieties and quotient groups. **90d:20092**

Nguyễn Xuân Tuyến Mod 2 cohomology algebras of the alternating groups. (Russian. English and Georgian summaries) **90a:20109**

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Tezuka, Michishige (*with* Yagita, N.) Cohomology of finite groups and Brown-Peterson cohomology. **90i:55011**

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20J10 Groups arising as cohomology groups

Items with secondary classifications in 20J10

Zerck, Rainer On the homology of the higher relation modules. **90f:20049**

20J15 Category of groups

Dăianu, Dan On the completeness of group a-category. **90e:20047**

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Bergman, George M. Embedding arbitrary algebras in groups. **90a:20049**

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Berrick, A. J. Fibrations with Hopfian properties. **90i:55027**

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20Kxx Abelian groups

(**Göbel, Rüdiger**) *see* **Abelian group theory, 90d:20093**

(**Walker, Elbert A.**) *see* **Abelian group theory, 90d:20093**

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Abelian group theory ★ Abelian group theory. **90d:20093**

Conference:

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(**Fuchs, László**[1]) *see* **Abelian group theory, 90a:20005**

(**Göbel, Rüdiger**) *see* **Abelian group theory, 90a:20005**

(**Schultz, Phillip**) *see* **Abelian group theory, 90a:20005**

Items listed otherwise than by author

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20K01 Finite abelian groups

Corrádi, Keresztély (*with* Szabó, Sándor) A new proof of Rédei's theorem. **90i:20056**

Fang, Xin Gui A characterization of finite 2-DCI groups. (Chinese) **90j:20117**

Hayden, John L. Elementary abelian Cartesian groups. **90d:20094**

Obaid, Evelyn E. On factorizations of finite abelian groups which admit replacement of a Z-set by a subgroup. **90c:20065**

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Cheng, Yungchen Decompositions of U-groups. **90h:20001**

Kopilovich, L. E. Difference sets in noncyclic abelian groups. **90g:05047**

20K05 Finitely generated groups

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Andreadakis, S. (*with* Raptis, E.; Varsos, D.) Extending isomorphisms to automorphisms. **90j:20054**

Raptis, E. *see* **Andreadakis, S.; et al., 90j:20054**

Varsos, D. *see* **Andreadakis, S.; et al., 90j:20054**

20K10 Torsion groups, primary groups and generalized primary groups

Benabdallah, K. (*with* Piché, C.) Sur les sous-groupes purifiables des groupes abéliens primaires. (English summary) [On the purifiable subgroups of primary abelian groups] **90m:20063**

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— (*with* Mader, A.; Megibben, Charles) Essentially indecomposable abelian p-groups having a filtration of prescribed type. **90d:20095**

Dugas, Manfred (*with* Vergohsen, René) On socles of abelian p-groups in L. **90g:20078**

Honda, Kin-ya Plain global bases of reduced abelian p-groups. **90b:20047**

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Megibben, Charles ω_1-separable p-groups. **90f:20077**

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Liebert, Wolfgang Isomorphic automorphism groups of primary abelian groups. **90g:20085**

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— *see also* **Benabdallah, K.; et al., 90b:20049**

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20K12 Ulm sequences

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Göbel, Rüdiger Helmut Ulm: his work and its impact on recent mathematics. **90c:01035**

(Ulm, Helmut) *see* **Göbel, Rüdiger, 90c:01035**

20K15 Torsion free groups, finite rank

Albrecht, Ulrich (*with* Hill, Paul D.) Separable vector groups. **90g:20080**

Arnold, David M. (*with* Vinsonhaler, C.) Representing graphs for a class of torsion-free abelian groups. **90h:20077**

— (*with* Vinsonhaler, C.) Quasi-endomorphism rings for a class of Butler groups. **90c:20067**

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Butler, M. C. R. Some almost split sequences in torsionfree abelian group theory. **90f:20079**

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— Generating an injective class of torsion-free abelian groups. **90b:20048**

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— (*with* Wickless, William J.) Hyper-τ groups. **90e:20048**

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Kravchenko, A. A. Balanced and cobalanced Butler groups. **90h:20079**

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Lady, E. L. Warfield duality and rank-one quasi-summands of tensor products of finite ra locally free modules over Dedekind domains. **90k:13007**

Metelli, Claudia Almost separable torsionfree abelian groups. **90g:20083**

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20K20 Torsion free groups, infinite rank

Albrecht, Ulrich Abelian groups A such that the category of A-solvable groups is preabelia **90e:20049**

— Endomorphism rings and a generalization of torsion-freeness and purity. **90h:20080**

Bican, Ladislav On countable Butler groups. **90g:20081**

Dugas, Manfred (*with* Hausen, Jutta) Torsion-free E-uniserial groups of infinite rank. **90c:20070**

— (*with* Oxford, Edwin P.) Preradicals induced by torsion free abelian groups. **90e:20051**

— (*with* Irwin, John M.) On pure subgroups of Cartesian products of integers. **90e:20050**

— (*with* Hill, Paul D.; Rangaswamy, K. M.) Butler groups of infinite rank. II. **90k:20092**

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— Bihomogeneous groups. **90h:20082**

Ohta, Haruto *see* **Eda, Katsuya, 90f:20081**

Oxford, Edwin P. *see* **Dugas, Manfred, 90e:20051**

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Wald, Burkhard On the groups Q_κ. **90j:20119**

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Göbel, Rüdiger *see* **Franzen, Berthold, 90g:16029**

Goeters, H. Pat When is Ext(A, B) torsion-free?, and related problems. **90d:20097**

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Krylov, P. A. Torsion-free abelian groups with hereditary endomorphism rings. **90f:20086**

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Rychkov, S. V. Endomorphism rings of abelian groups. **90f:20084**

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Soifer, Alexander For singular cardinals λ of cofinality ω, λ-decomposable groups are λ^+-decomposable. **90i:20059**

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20K21 Mixed groups

Hill, Paul D. (*with* Megibben, Charles) Knice subgroups of mixed groups. **90h:20083**

— (*with* Megibben, Charles) The local equivalence theorem. **90f:20083**

Kominek, Z. Some properties of decompositions of a commutative group. **90j:20120**

Lane, Mark Fully invariant submodules of p-local balanced projective groups. **90d:20099**

May, Warren The direct factor problem for modular abelian group algebras. **90c:20071**

Megibben, Charles *see* **Hill, Paul D., 90f:20083** *and* **90h:20083**

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Benabdallah, K. (*with* Cutler, Doyle O.; Mader, A.) Extensions of torsion-complete p-groups. **90b:20049**
Cutler, Doyle O. *see* **Benabdallah, K.; et al., 90b:20049**
Mader, A. *see* **Benabdallah, K.; et al., 90b:20049**

20K25 Direct sums, direct products, etc.

Charles, Bernard La condition $G \cong H \oplus G/H$ pour un groupe abélien. [The condition $G \cong H \oplus G/H$ for an abelian group] **90k:20093**
Göbel, Rüdiger (*with* Ziegler, Martin) Very decomposable abelian groups. **90e:20052**
Keef, Patrick On set theory and the balanced-projective dimension of C_Ω groups. **90d:20100**
Lane, Mark On p-local abelian groups with decomposition bases. **90i:20058**
O'Neill, John D. On decompositions of modules and submodules. **90g:20084**
Soifer, Alexander For singular cardinals λ of cofinality ω, λ-decomposable groups are λ^+-decomposable. **90i:20059**
Ziegler, Martin *see* **Göbel, Rüdiger, 90e:20052**

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Hill, Paul D. *see* **Albrecht, Ulrich, 90g:20080**
Johnson, David Lawrence Noncancellation and nonabelian tensor squares. **90a:20062**

20K26 Indecomposable groups

Irwin, John M. (*with* Okoh, Frank) Essentially purely indecomposable groups. **90a:20113**
Okoh, Frank *see* **Irwin, John M., 90a:20113**

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Mader, A. *see* **Cutler, Doyle O.; et al., 90d:20095**
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20K27 Subgroups

Items with secondary classifications in 20K27

Benabdallah, K. (*with* Piché, C.) Sur les sous-groupes purifiables des groupes abéliens primaires. (English summary) [On the purifiable subgroups of primary abelian groups] **90m:20063**
Dugas, Manfred (*with* Vergohsen, René) On socles of abelian p-groups in L. **90g:20078**
Goeters, H. Pat (*with* Wickless, William J.) Hyper-τ groups. **90e:20048**
Piché, C. *see* **Benabdallah, K., 90m:20063**
Shelah, Saharon On reconstructing separable reduced p-groups with a given socle. **90g:20079**
Vergohsen, René *see* **Dugas, Manfred, 90g:20078**
Wickless, William J. *see* **Goeters, H. Pat, 90e:20048**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Dugas, Manfred (*with* Shelah, Saharon) E-transitive groups in L. **90i:20060**
Liebert, Wolfgang Isomorphic automorphism groups of primary abelian groups. **90g:20085**
May, Warren Endomorphism rings of mixed abelian groups. **90c:20072**
Rychkov, S. V. Endomorphism rings of abelian groups. **90f:20084**
Schultz, Phillip The endomorphism ring of a valuated group. **90c:20073**
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Szabó, Edit Über die Invarianten endlicher abelscher Gruppenpaare. [On the invariants of finite abelian group pairs] **90k:20094**
Zanardo, Paolo (*with* Zannier, Umberto) On the vector space of translates of a map from an abelian group into a field of positive characteristic. (Italian summary) **90i:20061**
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Goldsmith, B. On endomorphisms and automorphisms of some torsion-free modules. **90h:16051**
Hill, Paul D. (*with* Megibben, Charles) The local equivalence theorem. **90f:20083**
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Kurepa, S. On P. Volkmann's paper. (Serbo-Croatian summary) **90d:39015**
Maxson, Carlton J. (*with* Natarajan, Ponnammal) E-full and E-rigid meromorphic products. **90f:16052**
May, Warren *see* **Göbel, Rüdiger, 90j:16070**
Megibben, Charles *see* **Hill, Paul D., 90f:20083**
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Pierce, R. S. E-modules. **90e:13013**

20K35 Extensions

Benabdallah, K. (*with* Cutler, Doyle O.; Mader, A.) Extensions of torsion-complete p-groups. **90b:20049**
Cannonito, F. B. On inequivalent group extensions. **90m:20067**
Cutler, Doyle O. *see* **Benabdallah, K.; et al., 90b:20049**
Fuchs, László[1] A generalization of Baer's splitting problem on abelian groups. **90f:20085**
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Grossberg, Rami (*with* Shelah, Saharon) On the structure of $\mathrm{Ext}_p(G, \mathbf{Z})$. **90d:20101**
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Schultz, Phillip Finite extensions of torsion-free groups. **90j:20121**
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Goeters, H. Pat When is $\mathrm{Ext}(A, B)$ torsion-free?, and related problems. **90d:20097**
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Kuz′min, Yu. V. Some properties of free abelian extensions. (Russian) **90g:20077**

20K40 Homological and categorical methods

Krandick, Werner On the homological significance of the group of rationals with square-free denominators. **90a:20115**
Krylov, P. A. Torsion-free abelian groups with hereditary endomorphism rings. **90f:20086**
Mashhood, Asif *see* **Ramana Murthy, N. V., 90j:20122**
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20K45 Topological methods

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Mader, A. (*with* Vinsonhaler, C.) Minimal Hausdorff topologies on abelian groups. **90h:20085**
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Eda, Katsuya (*with* Ohta, Haruto) On abelian groups of integer-valued continuous functions, their **Z**-duals and **Z**-reflexivity. **90f:20081**
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Khisamiev, N. G. The arithmetic hierarchy of abelian groups. **90a:20116**
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Mekler, Alan H. (*with* Shelah, Saharon) Diamond and λ-systems. **90i:03055**
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20Lxx Groupoids (small categories in which all morphisms are isomorphisms)

20L05 General theory

Kock, Anders On the integration theorem for Lie groupoids. **90j:20124**

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Mayer, Meinhard E. Groupoids and Lie bigebras in gauge and string theories. **90b:17039**

20L10 Connections with group theory

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Horadam, K. J. The conjugacy problem for finite graph products. **90c:20042**

20L13 Mappings of groupoids

Items with secondary classifications in 20L13

Tabor, Józef A Pexider equation on a small category. (Polish summary) **90j:39012**

20L15 Connections with topology

Items with secondary classifications in 20L15

Bourn, Dominique Pseudofunctors and nonabelian weak equivalences. **90b:18016**
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Weinstein, Alan D. *see* **Mikami, Kentaro, 90c:58060**

20L17 Connections with category theory

Items with secondary classifications in 20L17

Lattermann, Stefan ★ Tannakakategorien. (German) [Tannakian categories] **90k:18009**

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Costé, Alain (*with* Dazord, P.; Weinstein, Alan D.) Groupoïdes symplectiques. [Symplectic groupoids] **90g:58033**
Dazord, P. *see* **Costé, Alain; et al., 90g:58033**
Ellis, G. J. Crossed modules. **90d:20001**
Hōding, Michael Algebraische Strukturen spezieller diskreter Optimierungsprobleme. [Algebraic structures of special discrete optimization problems] **90b:90110**
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Weinstein, Alan D. *see* **Costé, Alain; et al., 90g:58033**

20Mxx Semigroups

Items with secondary classifications in 20Mxx

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20M05 Free semigroups, generators and relations, word problem

Choffrut, C. A remark on the representation of trace monoids. **90k:20096**
Diekert, Volker Transitive orientations, Möbius functions, and complete semi-Thue systems for free partially commutative monoids. **90j:20125**
Faĭziev, V. A. Pseudocharacters that are invariant with respect to semigroup endomorphisms. (Russian. Tajiki summary) **90f:20087**
Gass, Michael An order topology for finitely generated free monoids. **90g:20088**
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Madlener, Klaus (*with* Otto, Friedrich) On groups having finite monadic Church-Rosser presentations. **90a:20117**
— (*with* Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) **90a:20118**
Makaridina, V. A. Orderability of free idempotent semigroups. (Russian) **90d:20102**
Otto, Friedrich *see* **Madlener, Klaus, 90a:20117** *and* **90a:20118**
Pirillo, G. The van der Waerden theorem and the Burnside problem for semigroups. **90f:20088**
Reilly, N. R. Free combinatorial strict inverse semigroups. **90b:20050**
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Shneerson, L. M. On the axiomatic rank of varieties generated by a semigroup or monoid with one defining relation. **90a:20120**
— Satisfiability of nontrivial identities in finitely generated semigroups. **90g:20089**
Spehner, Jean-Claude Every finitely generated submonoid of a free monoid has a finite Mal′cev's presentation. **90f:20089**
Tang, Chang Jie (*with* Zhang, Yi Li) The unique decomposition theorem of the semigroup of infix queries. **90a:20121**
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Yu, Bing Jun Solutions to a class of equations in a free monoid X^*. (Chinese. English summary) **90j:20126**
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Bruyère, Véronique About prefix sets of words. **90e:94042**
Duchamp, G. (*with* Thibon, J.-Y.) Le support de l'algebre de Lie libre. (English summary) [The support of the free Lie algebra] **90h:17007**
Gerhard, J. A. (*with* Petrich, Mario) Certain characterizations of varieties of bands. **90c:20076**
Lysenko, F. F. Numerical functions on identities. (Russian) **90i:20070**
Madlener, Klaus (*with* Otto, Friedrich) Pseudonatural algorithms for finitely generated presentations of monoids and groups. **90f:20047**
Otto, Friedrich *see* **Madlener, Klaus, 90f:20047**
Petrich, Mario *see* **Gerhard, J. A., 90c:20076**
Sapir, M. V. Algorithmic problems in varieties of semigroups. **90h:20087**
Simon, Imre Recognizable sets with multiplicities in the tropical semiring. (*see* **90i:68010**)
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Tsaranov, S. V. Classification of Coxeter-type monoids that have attractors. **90f:20048**
Vazhenin, Yu. M. Decidability of first-order theories of classes of semigroups. (Russian) **90b:03014**
— *see also* **Bayasgalan, B., 90f:20002**

20M07 Varieties of semigroups

Beaudry, Martin Characterization of idempotent transformation monoids. **90m:20069**
Boguta, B. K. Coverings of varieties and lattice doubling. (Russian) **90m:20070**
Fărcaş, Gh. Sur les demi-groupes superplats. [Superflat semigroups] **90b:20051**
Gensemer, Susan H. (*with* Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. **90h:20086**
Gerhard, J. A. (*with* Petrich, Mario) Certain characterizations of varieties of bands. **90c:20076**
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Hall, T. E. Identities for existence varieties of regular semigroups. **90j:20127**
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Knyazev, O. V. The groupoid of varieties of completely simple semigroups. **90c:20077**
Larionov, N. B. On the paper: "Embedding of semigroup amalgams in varieties" [in *Semigroups and partial groupoids* (Russian), 45–58, Leningrad Gos. Ped. Inst., Leningrad, 1987; MR 89b:20127]. (Russian) **90c:20078**
— Embedding in varieties of semigroup amalgams that have external semigroup continuations. (Russian) (*see* **90k:20004**)
Martynov, L. M. On spectra of solvability and attainability for varieties of semigroups. **90f:20091**
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Nakajima, Sizuo On the augmented hull of bands. (*see* **90e:20002**)
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Roĭz, E. N. On the basis property of subdirect products of semigroups with a generalized left cancellation condition, possibly with a zero adjoined. (Russian) **90k:20098**
Saliĭ, V. N. Almost restrictive semigroups and quasi-Boolean extensions. (Russian) **90k:20099**
Sapir, M. V. Algorithmic problems in varieties of semigroups. **90h:20087**
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Shevrin, L. N. *see* **Sapir, M. V., 90e:20054**
Trotter, P. G. Subdirect decompositions of the lattice of varieties of completely regular semigroups. **90h:20088**
— Injectives in varieties of completely regular semigroups. **90h:20089**
Vachuska, Colleen Identities on free products of bands. **90d:20103**

Vernikov, B. M. Dualities in lattices of semigroup varieties. **90h:20090**
Volkov, M. V. Semigroup varieties with a modular lattice of subvarieties. (Russian) **90k:20100**
— The finite basis property of varieties of semigroups. (Russian) **90h:20091**
Weinert, Hanns J. *see* **Gensemer, Susan H., 90h:20086**
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Makaridina, V. A. Orderability of free idempotent semigroups. (Russian) **90d:20102**
Martynov, L. M. Varieties of solvable algebras. (Russian) **90k:08013**
Rautenberg, Wolfgang Axiomatization of semigroup consequences. **90m:03057**
Reilly, N. R. Free combinatorial strict inverse semigroups. **90b:20050**
Shneerson, L. M. On the axiomatic rank of varieties generated by a semigroup or monoid with one defining relation. **90a:20120**
— Satisfiability of nontrivial identities in finitely generated semigroups. **90g:20089**
Vazhenin, Yu. M. Decidability of first-order theories of classes of semigroups. (Russian) **90b:03014**

20M10 General structure theory

Alimpić, Branka P. (*with* Krgović, Dragica N.) Some congruences on regular semigroups. **90b:20052**
Birget, Jean-Camille The synthesis theorem for finite regular semigroups, and its generalization. **90f:20093**
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Bogdanović, Stojan *see* **Ćirić, Miroslav, 90i:20063** *and* **Protić, Petar, 90i:20065**
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Bosbach, Bruno Hyperarchimedische Teilbarkeitshalbgruppen. [Hyper-Archimedean divisibility semigroups] **90e:20055**
Cherubini, A. *see* **Bonzini, Celestina, 90b:20053**
Ćirić, Miroslav (*with* Bogdanović, Stojan) Rédei's band of periodic π-groups. (Serbo-Croatian summary) **90i:20063**
Edwards, P. M. Maximizing a congruence with respect to its partition of idempotents. **90k:20101**
Guo, Yu Qi *see* **Zhu, Ping; et al., 90m:20075**
Hall, T. E. The isomorphism problem for orthodox semigroups. **90c:20079**
Hanumantha Rao, S. (*with* Lakshmi, P.) Group congruences on eventually regular semigroups. **90c:20080**
Henckell, Karsten Pointlike sets: the finest aperiodic cover of a finite semigroup. **90f:20094**
Higgins, Peter M. Embedding in bisimple semigroups. **90g:20090**
Howie, John M. Embedding semigroups in nilpotent-generated semigroups. (Russian summary) **90j:20128**
Imaoka, Teruo Special amalgamation for regular semigroups. (*see* **90e:20002**)
Ito, Masami^1 (*with* Reis, C. M.; Thierrin, G.) Adherence in semigroups. (*see* **90k:20003**)
Justin, J. (*with* Pirillo, G.) Comments on the permutation property for semigroups. **90a:20125**
— (*with* Pirillo, G.) Infinite words and permutation properties. **90j:20129**
Kim, Ju Pil *see* **Sohn, Mun Gu, 90c:20083**
Kozhevnikov, O. B. Unions of Brandt semigroups. (Russian) (*see* **90k:20004**)
Kozlov, K. P. Diagonally maximally unstable semigroups. (Russian) **90f:20095**
Krgović, Dragica N. *see* **Alimpić, Branka P., 90b:20052**
Lakshmi, P. *see* **Hanumantha Rao, S., 90c:20080**
Lawson, Mark V. An order theoretic characterisation of locally orthodox regular semigroups. **90b:20054**
de Luca, Aldo (*with* Varricchio, Stefano) A note on ω-permutable semigroups. **90j:20130**
Luedeman, John K. Congruences on semigroups of quotients. **90j:20131**
Makarenko, V. A. An improved algorithm for finding the isomorphism of finite simple semigroups. (Russian. English summary) **90m:20071**
Margolis, Stuart W. (*with* Meakin, John C.) E-unitary inverse monoids and the Cayley graph of a group presentation. **90f:20096**
Meakin, John C. *see* **Margolis, Stuart W., 90f:20096**
Mel′nichuk, I. L. Semigroups with n-closed subsets. **90c:20081**
Migliorini, Franco On increasing and Q-increasing elements in semigroups. (Italian summary) **90i:20064**
Mills, Janet E. Inverse semigroups through groups. (Not in MR)
Murciano, M. G. On generalized Rees matrix semigroups. **90m:20072**
Mushtaq, Q. Embedding of an LA-semigroup in a commutative monoid. **90m:20073**
Nakajima, Sizuo Wreath product decompositions of inflated Munn semigroups. (*see* **90k:20003**)
Osondu, Kevin E. Extensions of symmetrisations of semigroups. **90g:20091**
Páles, Z. A Stone-type theorem for abelian semigroups. **90e:20056**
Petrich, Mario Congruences on completely regular semigroups. **90g:20092**
Pin, J.-E. On a conjecture of Rhodes. **90j:20132**
Pirillo, G. Two finiteness conditions for finitely generated and periodic semigroups. **90m:20074**
— *see also* **Justin, J., 90a:20125** *and* **90j:20129**
Protić, Petar (*with* Bogdanović, Stojan) Some idempotent-separating congruences on a ¶-regular semigroup. **90i:20065**
Qi, Zhen Kai Conditions for normality of a submonoid and the third isomorphism theorem for monoids. (Chinese. English summary) **90c:20082**
Reis, C. M. *see* **Ito, Masami^1; et al.**, (**90k:20003**)
Ren, Xue Ming *see* **Zhu, Ping; et al., 90m:20075**
Renner, Lex E. Completely regular algebraic monoids. **90g:20093**
Rhodes, John *see* **Birget, Jean-Camille, 90a:20124**
Saito, Tatsuhiko Orthodox semidirect products of semigroups. **90k:20102**
— Naturally ordered regular semigroups with maximum inverses. **90d:20104**
— Construction of regular semigroups with inverse transversals. **90d:20105**
— Orthodox semidirect products and wreath products of monoids. **90d:20106**
Shoji, Kunitaka Amalgamation bases for semigroups. (*see* **90e:20002**)
Skorsky, Martin Regular monoids generated by two Galois connections. **90i:20066**
Sohn, Mun Gu (*with* Kim, Ju Pil) g-regular semigroups. **90c:20083**
Song, Guang Tian The application of Lyndon words in the Kurosh problem for PI-algebras and in the Burnside problem for semigroups. (Chinese) **90f:20097**
Spake, Reuben Semilattice decomposition of the power semigroup of the group of integers. **90a:20126**
Strecker, Reinhard On a class of t-Archimedean semigroups. **90f:20098**
Szendrei, Mária B. A note on Birget-Rhodes expansion of groups. **90k:20103**
Tamura, Takayuki (*with* Yamaoka, Kenya) The zero containing property of isomorphisms of finite power semigroups. (*see* **90e:20002**)
— (*with* Yamaoka, Kenya) Note on finite power semigroups. (*see* **90k:20003**)
Thierrin, G. *see* **Ito, Masami^1; et al.**, (**90k:20003**)
Todorov, K. On the two-sided identical semigroups and on one generalization of the quaternion group. **90h:20092**
Varricchio, Stefano *see* **de Luca, Aldo, 90j:20130**
Wang, Li Min^3 Semidirect products of bands and semigroups. (Chinese) (Not in MR)
Yamada, Miyuki On $\mathscr{P}$-cryptogroups. (*see* **90e:20002**)
Yamaoka, Kenya *see* **Tamura, Takayuki**, (**90e:20002**) *and* (**90k:20003**)
Yashina, E. Yu. Approximation of semigroups by inverse completely regular semigroups. (Russian) (*see* **90k:20004**)
Zhu, Ping (*with* Guo, Yu Qi; Ren, Xue Ming) Semilattice (matrix)-matrix (semilattice) decomposition of quasicompletely orthodox semigroups into quasigroups. (Chinese) **90m:20075**
Zhu, Ping Yu Classification of finite left-duo P- [Δ-] semigroups. (Chinese) **90k:20104**

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Faĭziev, V. A. Pseudocharacters that are invariant with respect to semigroup endomorphisms. (Russian. Tajiki summary) **90f:20087**
Gensemer, Susan H. (*with* Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. **90h:20086**
Goberstein, Simon M. Inverse semigroups determined by their bundles of correspondences. **90j:20134**
Hansoul, G. Algèbres de Boole et algèbres de Boole primitives. [Boolean algebras and primitive Boolean algebras] **90b:06024**
Kehayopulu, Niovi On weakly prime, weakly semiprime, prime ideal elements in po*e*-semigroups. **90f:06028**
Levi, Inessa (*with* Schein, Boris M.) The semigroup of one-to-one transformations with finite defects. **90f:20104**
de Luca, Aldo (*with* Varricchio, Stefano) Some combinatorial properties of the Thue-Morse sequence and a problem in semigroups. **90k:68090**
Meldrum, J. D. P. Group theoretic results in Clifford semigroups. **90a:20122**
Merlier, Thérèse Some properties of lattice ordered Rees matrix semigroups. **90e:06029**
Peters, Wolfgang Berechnung der linearen involutorischen Halbgruppen sechster und siebenter Ordnung. [Computing the linear involutory semigroups of sixth and seventh order] **90d:06022**
van Rooyen, G. W. S. On quasi-reflexive rings (semigroups). **90f:16007**
Schein, Boris M. *see* **Levi, Inessa, 90f:20104**
Varricchio, Stefano *see* **de Luca, Aldo, 90k:68090**
Weinert, Hanns J. *see* **Gensemer, Susan H., 90h:20086**

20M11 Radical theory

Kelarev, A. V. Radicals and sheaves of semigroups. **90f:20099**
— Hereditary radicals and 0-bands of semigroups. **90a:20127**

20M12 Ideal theory

Fabrici, Imrich Semigroups containing no maximal ideals. **90i:20067**
Lai, Chi Keung (*with* Shum, K. P.) Characterizations of dual semigroups. **90j:20133**
Miccoli, Maria Maddalena Bi-ideals in orthodox semigroups. (Italian summary) **90g:20094**
— (*with* Pondělíček, Bedřich) On α-ideals and generalized α-ideals in semigroups. **90g:20095**
Pondělíček, Bedřich *see* **Miccoli, Maria Maddalena, 90g:20095**
Shum, K. P. Ideals with a nonadmissible idempotent. **90h:20093**
— *see also* **Lai, Chi Keung, 90j:20133**

Items with secondary classifications in 20M12

Howie, John M. (*with* McFadden, Robert B.) Ideals are greater on the left. **90m:20077**
Magill, K. D., Jr. On the ideals of the semigroup of the 1-sphere. **90i:20068**
McFadden, Robert B. *see* **Howie, John M., 90m:20077**
van Rooyen, G. W. S. On quasi-reflexive rings (semigroups). **90f:16007**

20M14 Commutative semigroups

Bogacheva, E. V. Duality of commutative semigroups. (Russian) **90f:20100**
— Absolute approximation of semigroups by bicharacters. (Russian) (*see* **90k:20004**)
Chen, Qing Hua^2 On well-semimodules. (Chinese. English summary) **90m:20076**
Ermolina, N. G. Approximation of commutative semigroups by real and finite bicharacters. (Russian) **90f:20101**
Geroldinger, Alfred (*with* Lettl, Günter) Factorization problems in semigroups. **90h:20094**
Lettl, Günter *see* **Geroldinger, Alfred, 90h:20094**
Pondělíček, Bedřich Direct decomposability of tolerances and congruences on semigroups. **90a:20128**
Popyrin, A. V. Nondegenerate bilinear mappings of commutative semigroups. (Russian) **90e:20057**
Satô, Kôjirô A remark on M-semigroups. (*see* **90k:20003**)
Shoji, Kunitaka Commutative semigroups which are amalgamation bases. (*see* **90k:20003**)
Takahashi, Michihiro Structures of semimodules. **90f:20102**

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Baader, Franz (*with* Büttner, Wolfram) Unification in commutative idempotent monoids. **90e:68089**
Büttner, Wolfram *see* **Baader, Franz, 90e:68089**
Craigen, R. (*with* Páles, Z.) The associativity equation revisited. **90g:39019**
Eigenthaler, G. (*with* Nöbauer, Wilfried; Wiesenbauer, J.) Über Halbgruppen vertauschbarer Polynome. [On semigroups of commuting polynomials] **90b:11131**
Katsman, S. I. *see* **Repnitskiĭ, V. B., 90f:20092**
Mareš, Milan Addition of rational fuzzy quantities: convolutive approach. **90b:94014**
Martynov, L. M. On spectra of solvability and attainability for varieties of semigroups. **90f:20091**
Nöbauer, Wilfried Vertauschbare Polynome: an den Grenzen der Koeffizientenvergleichsmethode. [Permutable polynomials: the limits of the coefficient comparison method] **90e:12009**
— *see also* **Eigenthaler, G.; et al., 90b:11131**
Páles, Z. A Stone-type theorem for abelian semigroups. **90e:20056**
— *see also* **Craigen, R., 90g:39019**
Repnitskiĭ, V. B. (*with* Katsman, S. I.) Commutative semigroups the lattice of whose subsemigroups satisfies a nontrivial identity. **90f:20092**
Shvarts, V. Ya. Dense extensions of commutative n-semigroups. (Russian) **90h:20100**
Wang, Hua Xiong A note on endomorphism semirings of semimodules. **90i:16033**
Wiesenbauer, J. *see* **Eigenthaler, G.; et al., 90b:11131**
Zhu, Xiao Zhang A commutativity condition for semigroups and rings. (Chinese) **90e:16054**

20M15 Mappings of semigroups

Ermolina, N. G. *see* **Lesokhin, M. M.; et al., 90d:20107**
Goberstein, Simon M. Inverse semigroups determined by their bundles of correspondences. **90j:20134**
Lesokhin, M. M. (*with* Popyrin, A. V.; Ermolina, N. G.) Bicharacters of semigroups. (Russian) **90d:20107**
Popov, Yu. F. A semigroup of the distributive system of a ring. (Russian) **90d:20108**
Popyrin, A. V. *see* **Lesokhin, M. M.; et al., 90d:20107**

Items with secondary classifications in 20M15

Bogacheva, E. V. Duality of commutative semigroups. (Russian) **90f:20100**
Fleischer, V. Isomorphisms of wreath products of monoids. II. **90a:20130**
Gensemer, Susan H. (*with* Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. **90h:20086**
Pusack, Martin Ordnungstreue Homomorphismen einer kommutativen Halbgruppe in $(\mathbf{R}_+,+,\leq)$. (English and Russian summaries) [Order-preserving homomorphisms of a commutative semigroup in $(\mathbf{R}_+,+,\leq)$] **90f:06029**
Szendrei, Mária B. A note on Birget-Rhodes expansion of groups. **90k:20103**
Weinert, Hanns J. *see* **Gensemer, Susan H., 90h:20086**

20M17 Regular semigroups (use only for secondary classification)

Items with secondary classifications in 20M17

Augustine, M. K. (*with* Putcha, Mohan S.) Maps into Dynkin diagrams arising from regular monoids. **90j:20095**
Du, Xian Kun The rings with regular adjoint semigroups. **90b:16014**
Gerhard, J. A. (*with* Petrich, Mario) Varieties of bands revisited. **90c:20075**
Hall, T. E. Identities for existence varieties of regular semigroups. **90j:20127**
Higgins, Peter M. Embedding in bisimple semigroups. **90g:20090**
Imaoka, Teruo Special amalgamation for regular semigroups. (*see* **90e:20002**)
Lawson, Mark V. An order theoretic characterisation of locally orthodox regular semigroups. **90b:20054**
Petrich, Mario Congruences on completely regular semigroups. **90g:20092**
— *see also* **Gerhard, J. A., 90c:20075**
Putcha, Mohan S. *see* **Augustine, M. K., 90j:20095**
Renner, Lex E. Completely regular algebraic monoids. **90g:20093**
Saito, Tatsuhiko Naturally ordered regular semigroups with maximum inverses. **90d:20104**
— Construction of regular semigroups with inverse transversals. **90d:20105**
— Orthodox semidirect products and wreath products of monoids. **90d:20106**
Skorsky, Martin Regular monoids generated by two Galois connections. **90i:20066**
Trotter, P. G. Injectives in varieties of completely regular semigroups. **90h:20089**
Yamada, Miyuki On $\mathscr{P}$-cryptogroups. (*see* **90e:20002**)

20M18 Inverse semigroups (use only for secondary classification)

Items with secondary classifications in 20M18

Drazin, Michael P. Natural $*$-representations of inverse semigroups by operators. **90h:20097**
Hall, T. E. (*with* Johnston, K. G.) The lattice of pseudovarieties of inverse semigroups. **90f:20090**
Johnston, K. G. *see* **Hall, T. E., 90f:20090**
Kozhevnikov, O. B. Unions of Brandt semigroups. (Russian) (*see* **90k:20004**)
Margolis, Stuart W. (*with* Meakin, John C.) E-unitary inverse monoids and the Cayley graph of a group presentation. **90f:20096**
Meakin, John C. *see* **Margolis, Stuart W., 90f:20096**
Meldrum, J. D. P. Group theoretic results in Clifford semigroups. **90a:20122**
Mills, Janet E. Inverse semigroups through groups. (Not in MR)
Saito, Tatsuhiko Orthodox semidirect products and wreath products of monoids. **90d:20106**
Sokol′skiĭ, A. G. Semigroup rings of semilattices of groups. (Russian) **90m:20078**
Yashina, E. Yu. Approximation of semigroups by inverse completely regular semigroups. (Russian) (*see* **90k:20004**)

20M20 Semigroups of transformations, etc. [see also 47D05, 47H20, 54H15]

Beaudry, Martin Membership testing in commutative transformation semigroups. **90f:20103**
Dehornoy, Patrick Free distributive groupoids. **90j:20135**
Feĭzullaev, R. B. Semigroups of transformations of fixed rank. **90a:20129**
Fleischer, V. Isomorphisms of wreath products of monoids. II. **90a:20130**
Henckell, Karsten (*with* Lazarus, Susan; Rhodes, John) Prime decomposition theorem for arbitrary semigroups: general holonomy decomposition and synthesis theorem. **90e:20058**
Howie, John M. (*with* McFadden, Robert B.) Ideals are greater on the left. **90m:20077**
Kossaczký, Igor On Schützenberger monoids in transformations semigroups. **90a:20131**
Lazarus, Susan *see* **Henckell, Karsten; et al., 90e:20058**
Levi, Inessa (*with* Schein, Boris M.) The semigroup of one-to-one transformations with finite defects. **90f:20104**
Macedońska, Olga The semigroup of endomorphisms of the free group of infinite rank. **90e:20059**
Magill, K. D., Jr. On the ideals of the semigroup of the 1-sphere. **90i:20068**
— Embedding semigroups into semigroups with countability index two. **90h:20095**
McFadden, Robert B. *see* **Howie, John M., 90m:20077**
Mikhaĭlov, A. B. Semigroups and operands of mappings. (Russian) (*see* **90k:20004**)
Petrich, Mario Monogenic endomorphisms of a free monoid. **90b:20055**
Rhodes, John *see* **Henckell, Karsten; et al., 90e:20058**
Saito, Tatsuhiko Products of four idempotents in finite full transformation semigroups. **90d:20109**
— Products of idempotents in finite full transformation semigroups. **90d:20110**
Schein, Boris M. *see* **Levi, Inessa, 90f:20104**
Shneperman, L. B. On the semigroup of reflexive linear relations. (Russian) **90i:20069**
Szép, J. Maps on a finite set. **90a:20132**

Items with secondary classifications in 20M20

Adams, M. E. (*with* Gould, Matthew) Posets whose monoids of order-preserving maps are regular. **90m:06002**
Clay, James R. (*with* Grainger, Gary R.) Endomorphism nearrings of odd generalized dihedral groups. **90k:16039**
Császár, Á. u-isomorphic semigroups of continuous functions in locally compact spaces. **90a:54048**
Derech, V. D. Stable quasi-orders on some semigroups of partial monotone transformations of a finite ordered set. (Russian) (*see* **90d:00034**)
Gould, Matthew *see* **Adams, M. E., 90m:06002**
Grainger, Gary R. *see* **Clay, James R., 90k:16039**
Knauer, Ulrich (*with* Nieporte, Martin) Endomorphisms of graphs. I. The monoid of strong endomorphisms. **90h:05108**
— (*with* Normak, Peeter) Morita duality for monoids. **90m:20081**
Maxson, Carlton J. (*with* Pilz, Günter F.) Endomorphisms of fibred groups. **90a:20056**
Muradov, F. Kh. Superassociative algebras of partial continuous functions. (Russian. English and Azerbaijani summaries) **90e:54091**
Mustafaev, L. G. Semigroups of continuous partial transforms of topological spaces. (Russian. English and Azerbaijani summaries) **90e:54092**
Nieporte, Martin *see* **Knauer, Ulrich, 90h:05108**
Normak, Peeter *see* **Knauer, Ulrich, 90m:20081**
Okniński, Jan (*with* Putcha, Mohan S.) PI semigroup algebras of linear semigroups. **90j:20137**
Ostaszewski, Krzysztof Semigroups of density-continuous functions. **90b:54027**
Peterson, Gary Lee On the structure of an endomorphism near-ring. **90e:16063**
Pilz, Günter F. *see* **Maxson, Carlton J., 90a:20056**
Putcha, Mohan S. *see* **Okniński, Jan, 90j:20137**
Saito, Tatsuhiko Orthodox semidirect products and wreath products of monoids. **90d:20106**
Sauer, Norbert W. (*with* Stone, M. G.) Foliations and applications to structure problems. **90c:08006**
Stone, M. G. *see* **Sauer, Norbert W., 90c:08006**
Volkov, M. V. The finite basis property of varieties of semigroups. (Russian) **90h:20091**

20M25 Semigroup rings, multiplicative semigroups of rings

Engel, Alejandro B. (*with* Makar-Limanov, L.) On group rings which are not Ore domains. **90d:20111**
Kelarev, A. V. On regular semigroup rings. **90g:20096**
Klyushin, A. V. (*with* Kozhukhov, I. B.) On algebraically compact semigroup rings. **90d:20112**
Kozhukhov, I. B. *see* **Klyushin, A. V., 90d:20112**
Makar-Limanov, L. *see* **Engel, Alejandro B., 90d:20111**
Matsuda, Ryûki The ascending chain conditions for ideals and finitely generated ideals of commutative semigroup rings. **90h:20096**
Nath, Sudhir R. On classification of semigroup rings. **90j:20136**
Nordahl, Thomas E. On permutative semigroup algebras. **90a:20133**
Okniński, Jan (*with* Putcha, Mohan S.) PI semigroup algebras of linear semigroups. **90j:20137**
Putcha, Mohan S. *see* **Okniński, Jan, 90j:20137**
Sokol′skiĭ, A. G. Semigroup rings of semilattices of groups. (Russian) **90m:20078**
Yunusova, D. I. Extension of a pseudonorm of a ring, of a seminorm and of a metric of a semigroup to their semigroup ring. (Russian) **90d:20113**

Items with secondary classifications in 20M25

Dauns, John Centers of semigroup rings and conjugacy classes. **90a:16003**

Hannah, John (*with* O'Meara, K. C.) Depth of idempotent-generated subsemigroups of a regular ring. **90h:16021**
Jespers, Eric Graded rings and Jacobson rings. **90g:16004**
Okniński, Jan Commutative monoid rings with Krull dimension. **90a:13028**
— (*with* Van Oystaeyen, F.) Cancellative semigroup rings which are Azumaya algebras. **90g:16007**
O'Meara, K. C. *see* **Hannah, John, 90h:16021**
Sokol'skiĭ, A. G. Radicals of semigroup rings of complete 0-simple semigroups. (Russian) **90b:16012**
Van Oystaeyen, F. *see* **Okniński, Jan, 90g:16007**

20M30 Representation of semigroups

Drazin, Michael P. Natural $*$-representations of inverse semigroups by operators. **90h:20097**
Lemin, A. Yu. An application of the theory of isosceles (ultrametric) spaces to the Trnková-Vinárek theorem. **90g:20097**
Lysenko, F. F. Numerical functions on identities. (Russian) **90i:20070**
Rasulov, N. S. Approximation of compact topological semigroups by continuous bicharacters with respect to predicates. (Russian) **90j:20138**

Items with secondary classifications in 20M30

Choffrut, C. A remark on the representation of trace monoids. **90k:20096**
DeVun, E. E. (*with* Graham, George E.) Semigroups with commuting threads. **90e:22003**
Duncan, John (*with* Paterson, Alan L. T.) C^*-algebras of Clifford semigroups. **90e:46071**
Graham, George E. *see* **DeVun, E. E., 90e:22003**
Helmer, Dietrich (*with* İşık, N.) Construction of right topological compactifications for discrete versions of subsemigroups of compact groups. **90f:22001**
İşık, N. *see* **Helmer, Dietrich, 90f:22001**
Movsisyan, Yu. M. Hyperidentities and groups. (Russian. Armenian summary) **90g:20087**
Paterson, Alan L. T. *see* **Duncan, John, 90e:46071**
Skryago, A. M. Finite-dimensional linear representations of compact regular semigroups. (Russian) **90b:22002**

20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Qxx, 68Sxx]

Brlek, S. Enumeration of factors in the Thue-Morse word. **90i:20071**
Lallement, Gérard J. Languages recognized by programs over the two-element monoid. **90a:20134**
Straubing, Howard Semigroups and languages of dot-depth two. **90j:20139**
Tanaka, Genjiro On characteristic semigroups of Mealy automata. (*see* **90e:20002**)
V'yalitsin, A. A. Realization of monoids on sets. **90m:20079**
Wen, Zhi Xiong *see* **Wen, Zhi Ying, 90j:20140**
Wen, Zhi Ying (*with* Wen, Zhi Xiong) A survey of research on sequences of substitutions. (Chinese. English summary) **90j:20140**

Items with secondary classifications in 20M35

Beaudry, Martin Characterization of idempotent transformation monoids. **90m:20069**
Berstel, J. Properties of infinite words: recent results. (*see* **90i:68014**)
Blanchet-Sadri, F. Games, equations and the dot-depth hierarchy. **90k:68118**
Carpi, Arturo On synchronizing unambiguous automata. **90e:68073**
Cori, R. (*with* Métivier, Y.) Approximation of a trace, asynchronous automata and the ordering of events in a distributed system. (*see* **90i:68004**)
Dömösi, P. (*with* Ésik, Z.) On homomorphic simulation of automata by α_0-products. **90i:68069**
Duchamp, G. (*with* Thibon, J.-Y.) Bisections reconnaissables. (English summary) [Recognizable bisections] **90e:68056**
Ésik, Z. *see* **Dömösi, P., 90i:68069**
(Foryś, Wit) *see* **Rupert, C. P., 90m:68076**
Guo, Yu Qi *see* **Zhang, Luo Xin, 90b:68057**
Henckell, Karsten (*with* Lazarus, Susan; Rhodes, John) Prime decomposition theorem for arbitrary semigroups: general holonomy decomposition and synthesis theorem. **90e:20058**
Ito, Masami^1 (*with* Katsura, Masashi; Shih, Hui Jan) Relations between disjunctive languages and regular languages. (*see* **90e:20002**)
Katsura, Masashi Automorphism groups and factor automata of strongly connected automata. **90f:68128**
— *see also* **Ito, Masami^1; et al., (90e:20002)**
Lazarus, Susan *see* **Henckell, Karsten; et al., 90e:20058**
Lex, Wilfried Remarks on acts and the lattice of their torsion theories. **90e:08006**
de Luca, Aldo (*with* Varricchio, Stefano) Factorial languages whose growth function is quadratically upper bounded. **90b:68049**
Madlener, Klaus (*with* Otto, Friedrich) On groups having finite monadic Church-Rosser presentations. **90a:20117**
— (*with* Otto, Friedrich) Commutativity in groups presented by finite Church-Rosser Thue systems. (French summary) **90a:20118**
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Shih, Hui Jan *see* **Ito, Masami^1; et al., (90e:20002)**
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Tang, Chang Jie (*with* Zhang, Yi Li) The unique decomposition theorem of the semigroup of infix queries. **90a:20121**
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Varricchio, Stefano Bisections of free monoids and a new unavoidable regularity. (*see* **90i:68010**)
— *see also* **de Luca, Aldo, 90b:68049**
Wang, Chuan Hong Nondeterministic finite automata whose Gtb family of languages is recognizable. (Chinese. English summary) **90a:68060**
Yü, Shih Shêng *see* **Shyr, Hui Jan, (90k:20003)**
Zhang, Luo Xin (*with* Guo, Yu Qi) Infinite strong codes. **90b:68057**
Zhang, Yi Li *see* **Tang, Chang Jie, 90a:20121**

20M50 Connections with homological algebra and category theory

Bulman-Fleming, S. (*with* Gould, Victoria) On left absolutely flat monoids. **90m:20080**
Gould, Victoria *see* **Bulman-Fleming, S., 90m:20080**
Hurwitz, Carol M. On the homotopy theory of monoids. **90i:20072**
Kilp, Mati (*with* Knauer, Ulrich; Mikhalëv, A. V.) Wreath products of acts over monoids. II. Torsion free and divisible acts. **90e:20060**
Knauer, Ulrich (*with* Normak, Peeter) Morita duality for monoids. **90m:20081**
— *see also* **Kilp, Mati; et al., 90e:20060**
Mikhalëv, A. V. *see* **Kilp, Mati; et al., 90e:20060**
Normak, Peeter *see* **Knauer, Ulrich, 90m:20081**
Novikov, B. V. Partial cohomology of semigroups and its applications. **90a:20135**
Rhodes, John On the Cantor-Dedekind property of the Tilson order on categories and graphs. **90b:20056**
Tilson, Bret Categories as algebra: an essential ingredient in the theory of monoids. **90e:20061**

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Fleischer, V. Endomorphisms of polygons, and wreath products. (Russian. English summary) **90g:20098**
Szendrei, Mária B. A note on Birget-Rhodes expansion of groups. **90k:20103**

20M99 None of the above, but in this section

Fleischer, V. Endomorphisms of polygons, and wreath products. (Russian. English summary) **90g:20098**
Pollák, György Growth sequence of globally idempotent semigroups. **90j:20141**
Seth, A. On Γ-semigroup $T(A,B)$. **90d:20114**
— Rees's theorem for Γ-semigroup. **90d:20115**
Tolstova, G. S. Approximation of semigroups by characters with respect to predicates. (Russian) **90f:20105**

Items with secondary classifications in 20M99

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Berstel, J. (*with* Crochemore, Maxime; Pin, J.-E.) Thue-Morse sequence and p-adic topology for the free monoid. **90i:68054**
Böhm, C. (*with* Dezani-Ciancaglini, M.) Combinatory logic as monoids. **90m:03028**
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Dezani-Ciancaglini, M. *see* **Böhm, C., 90m:03028**
Hunter, R. P. On recognition and compactification. **90i:22004**
Mushtaq, Q. A note on almost semigroups. **90f:20110**
— A note on translative mappings on LA-semigroups. **90j:20147**
— A note on left almost semigroups. **90i:20077**
Pin, J.-E. *see* **Berstel, J.; et al., 90i:68054**
Putcha, Mohan S. ★ Linear algebraic monoids. **90a:20003**
— Linear algebraic monoids and G/H embeddings. **90j:20096**
Renner, Lex E. Reductive embeddings. **90m:14042**
— Classification of semisimple varieties. **90k:14057**
Santiago, M. L. *see* **Sribala, S., 90d:20117**
Sribala, S. (*with* Santiago, M. L.) Embedding a semiheap in a semigroup with involution. **90d:20117**

20Nxx Other generalizations of groups

20N05 Loops, quasigroups [see also 05Bxx]

Bannai, Eiichi (*with* Song, Sung-Yell) The character tables of Paige's simple Moufang loops and their relationship to the character tables of PSL$(2,q)$. **90b:20057**
Belousov, V. D. (*with* Sandik, M. D.) The generalized Bol configuration. **90a:20136**
Bennett, F. E. Quasigroup identities and Mendelsohn designs. **90h:20098**
— The spectra of a variety of quasigroups and related combinatorial designs. **90k:20105**
Chatterjea, S. K. On Ward quasigroups. **90a:20137**
Fan, Zhi Hua Partially ordered structure in loops. **90f:20106**
Galkin, V. M. On the Fischer-Smith theorem. **90a:20138**
Goodaire, Edgar G. (*with* Polcino Milies, César) Isomorphisms of integral alternative loop rings. **90b:20058**
Johnson, Kenneth Walter (*with* Smith, J. D. H.) Characters of finite quasigroups. III. Quotients and fusion. **90a:20139**
— (*with* Smith, J. D. H.) Characters of finite quasigroups. IV. Products and superschemes. **90j:20142**
Kepka, Tomáš (*with* Niemenmaa, M.) On conjugacy classes in finite loops. **90d:20116**
Lausch, Huberta Endliche Loops und ihre Unterloopverbände. [Finite loops and their subloop lattices] **90j:20143**
Niemenmaa, M. *see* **Kepka, Tomáš, 90d:20116**
Polcino Milies, César *see* **Goodaire, Edgar G., 90b:20058**
Ramamurthi, V. S. (*with* Solarin, A. R. T.) On finite right central loops. **90h:20099**
Robinson, D. A. Some Moufang G-loops in a matrix setting. **90f:20107**
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Schreiber, Shmuel Symmetric quasigroups of odd order. **90k:20106**
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Solarin, A. R. T. On the identities of Bol-Moufang type. **90b:20059**
— *see also* **Ramamurthi, V. S., 90h:20099**
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Ušan, Janez Partial A_l-groupoids. (Russian. Serbo-Croatian summary) **90i:20073**

Items with secondary classifications in 20N05

Akivis, M. A. (*with* Shelekhov, A. M.) Fourth-order alternators of a local analytic loop and three-webs of multidimensional surfaces. (Russian) **90f:53032**
Armanious, Magdi H. Classification of the Steiner quadruple systems of cardinality 32. **90m:05017**
Barlotti, Adriano (*with* Strambach, Karl) The geometry of double loops. **90b:51019**
Bennett, F. E. (*with* Wu, Li Sheng; Zhu, Lie^1) Concerning the existence of ICOILS. **90k:05038**
Bosbach, Bruno Lattice ordered binary systems. **90k:06031**
Guo, Yu Qi *see* **Zhu, Ping; et al., 90m:20075**
Kikkawa, Michihiko Projectivity of left loops on $\mathbf{R}^n$. **90i:53060**
Mikheev, P. O. (*with* Sabinin, L. V.) Smooth quasigroups and geometry. (Russian) **90b:53063**
Praeger, Cheryl E. A note on group Latin squares. **90g:05052**
Ren, Xue Ming *see* **Zhu, Ping; et al., 90m:20075**
Ringmann, Iris (*with* Walther, Frank) Eine durch Graphen definierte Klasse von Polyquasigruppen. [A class of polyquasigroups defined by graphs] **90k:05081**
Sabinin, L. V. *see* **Mikheev, P. O., 90b:53063**
Shelekhov, A. M. The g-structure associated with a multidimensional hexagonal 3-web is closed. **90h:53022**
— *see also* **Akivis, M. A., 90f:53032**
Strambach, Karl *see* **Barlotti, Adriano, 90b:51019**
Ustimenko, V. A. Groups, quasigroups and Tits geometries. (Russian) **90m:20046**
Walther, Frank *see* **Ringmann, Iris, 90k:05081**
Wu, Li Sheng *see* **Bennett, F. E.; et al., 90k:05038**
Xia, Wei Qun Some necessary and sufficient conditions for the existence of orthogonal Steiner triple systems. (Chinese. English summary) **90a:05032**
Zhu, Lie^1 *see* **Bennett, F. E.; et al., 90k:05038**
Zhu, Ping (*with* Guo, Yu Qi; Ren, Xue Ming) Semilattice (matrix)-matrix (semilattice) decomposition of quasicompletely orthodox semigroups into quasigroups. (Chinese) **90m:20075**

20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Santiago, M. L. *see* **Sribala, S., 90d:20117**
Sribala, S. (*with* Santiago, M. L.) Embedding a semiheap in a semigroup with involution. **90d:20117**
Volenec, Vladimir Laterally commutative heaps and TST-spaces. **90f:20108**
— Faithful homogeneous spaces over commutative groups and TST-spaces. **90f:20109**
— A characterization of laterally commutative heaps. **90e:20062**

Items with secondary classifications in 20N10

Sedlář, Vladimír Construction of a solvable planar Cartesian group. (Czech. English summary) **90k:51004**

20N15 n-ary systems

Cho, Jung Rae On n-groupoids defined on fields. **90k:20107**
Corovei, Ilie Relations between the homomorphisms of $(m+1)$-groups and the homomorphisms of their $(n+1)$-ary extensions. **90j:20144**
— (*with* Purdea, I.) The reduction of an $m+1$-group and its extensions to the same group. **90d:20118**
Dudek, Wiesław A. (*with* Stojaković, Zoran) On permutable n-groups. **90c:20084**
Èdel'man, S. L. Congruences on n-semigroups. (Russian) **90e:20063**
Michalski, Jacek Associated k-groups of n-groups. (Serbo-Croatian summary) **90i:20074**
— Remarks on homomorphisms and isomorphisms of G-derived polyadic groups. **90a:20140**
— On the functor J-der. **90g:20099**
— On $\mathscr{J}^1$-derived polyadic groups. **90k:20108**
Pop, Maria S. (*with* Purdea, I.) A generalization of the Zupnik's theorem relatively to n-semigroups. **90d:20119**
Purdea, I. *see* **Corovei, Ilie, 90d:20118** *and* **Pop, Maria S., 90d:20119**
Shvarts, V. Ya. Dense extensions of commutative n-semigroups. (Russian) **90h:20100**
Stojaković, Zoran Cyclic vector valued groupoids. (Serbo-Croatian summary) **90j:20145**
— *see also* **Dudek, Wiesław A., 90c:20084**
Ušan, Janez A class of 6-groupoids and $2H$-geometries. (Russian. Serbo-Croatian summary) **90h:20101**
— $\langle Nn, E\rangle$-nets with $(n+1)$-distance. (Russian. Serbo-Croatian summary) **90m:20082**
— On a class of $\langle Nn, E\rangle$-nets with $(n+1)$-distance. (Russian) **90m:20083**

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Smith, J. D. H. Multilinear algebras and Lie's theorem for formal n-loops. **90e:17007**

20N99 None of the above, but in this section

Akgül, Mustafa Some properties of fuzzy groups. **90a:20141**
Biswas, R. Fuzzy subgroups and anti-fuzzy subgroups. **90m:20084**
Corsini, Piergiulio (S.p.i.)-hypergroups of order 6. (Italian. English summary) **90a:20142**
— (*with* Vougiouklis, T.) From groupoids to groups through hypergroups. (Italian summary) **90m:20085**
Covaci, Rodica On abelian Ω-groups. (Romanian summary) **90g:20100**
Dehornoy, Patrick Sur la structure des gerbes libres. (English summary) [On free distributive groupoids] **90j:20146**
De Salvo, Mario Commutative hypergroups of order 5 and constant length 2. (Italian. English summary) **90a:20143**
Eroğlu, Mehmet Sait The homomorphic image of a fuzzy subgroup is always a fuzzy subgroup. **90i:20075**
Freni, Domenico Sur les hypergroupes de type U et sous-hypergroupes engendrés par un sous-ensemble. (English summary) [Hypergroups of type U and subhypergroups generated by a subset] **90b:20060**
Gerber, G. K. A nil radical for Ω-groups. **90k:20109**
Haddad, Labib (*with* Sureau, Yves) Les cogroupes et les D-hypergroupes. (English summary) [Cogroups and D-hypergroups] **90a:20144**
Li, Hong Xing *see* **Zhang, Zhen Liang; et al., 90f:20111**
Li, Tao Sheng Basics of fuzzy algebra. I. Fuzzy groups. (Chinese. English summary) **90i:20076**
Mishref, M. Atif *see* **Sidky, F. I., 90k:20110**
Mushtaq, Q. A note on almost semigroups. **90f:20110**
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Romanowska, Anna B. On some representations of groupoid modes satisfying the reductio law. **90d:20120**
— (*with* Roszkowska, B.) Representations of n-cyclic groupoids. **90a:20145**
Roszkowska, B. *see* **Romanowska, Anna B., 90a:20145**
Sidky, F. I. (*with* Mishref, M. Atif) Divisible and pure fuzzy subgroups. **90k:20110**
Šipoš, Ján On totally noncommutative convergence groupoids. (Russian summary) **90j:20148**
Steiner, Richard Multiple semidirect products of associative systems. **90k:20111**
Sureau, Yves *see* **Haddad, Labib, 90a:20144**
Volenec, Vladimir Subtractive groupoids and TST-spaces. **90k:20112**
Vougiouklis, T. *see* **Corsini, Piergiulio, 90m:20085**
Wang, Pei Zhuang *see* **Zhang, Zhen Liang; et al., 90f:20111**
Wang, Rui Pu The number of fuzzy subgroups of finite abelian p-groups. I. (Chinese) **90k:20113**
— The structure of fuzzy quotient groups. (Chinese. English summary) **90j:20149**
Zhang, Zhen Liang (*with* Li, Hong Xing; Wang, Pei Zhuang) The relationship between regular hypergroups and quotient groups. (Chinese. English summary) **90f:20111**

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Bhattacharya, D. K. On pararing. **90f:17006**
Evseev, A. E. Prototype completeness of classes of partial groupoids. (Russian) **90d:08007**
Gensemer, Susan H. (*with* Weinert, Hanns J.) On the embedding of partial groupoids into semigroups. **90h:20086**
Ioulidis, Stavros (*with* Mittas, Jean D.) Sur certaines notions préliminaires de l'hyperalgèbre linéaire. Introduction de l'hypergroupe polysymétrique. (Greek summary) [Some preliminary notions of linear hyperalgebra. Introduction to the polysymmetric hypergroup] **90e:16071**
Konstantinidou, Maria Les résiduels généralisés des éléments $\vee$-irréductibles dans les hypergroupoïdes strictement réticulés. [Generalized residuals of $\vee$-irreducible elements in strictly lattice-ordered hypergroupoids] **90e:06037**
— Certaines conditions d'existence des résiduels généralisés. (English and Italian summaries) [Some existence conditions for generalized residuals] **90e:06036**
— (*with* Serafimidis, K.) Sur les filets des hypergroupes canoniques strictement réticulés. (English summary) [Threads of strictly lattice-ordered canonical hypergroups] **90e:06035**
Mittas, Jean D. *see* **Ioulidis, Stavros, 90e:16071**
Serafimidis, K. *see* **Konstantinidou, Maria, 90e:06035**
Ušan, Janez On a generalization of lattices. (Russian. Serbo-Croatian summary) **90j:06014**
Veldsman, Stefan Sufficient conditions for a well-behaved Kurosh-Amitsur radical theory. **90k:16007**
Weinert, Hanns J. *see* **Gensemer, Susan H., 90h:20086**

20P05 Probability methods in group theory

Items with secondary classifications in 20P05

Pálfy, P. P. (*with* Szalay, M.) Further probabilistic results on the symmetric p-groups. **90g:11109**
Szalay, M. *see* **Pálfy, P. P., 90g:11109**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 22–00

Chen, Jin Quan (*with* Wang, Pei Ning; Lü, Zi Min; Wu, Xiong Biao) ★ Tables of the Clebsch-Gordan, Racah and subduction coefficients of SU(n) groups. **90j:22025**
Lü, Zi Min *see* **Chen, Jin Quan; et al., 90j:22025**
Wang, Pei Ning *see* **Chen, Jin Quan; et al., 90j:22025**
Wu, Xiong Biao *see* **Chen, Jin Quan; et al., 90j:22025**

22–01 Elementary exposition; textbooks

(Iacob, Andrei) *see* **Vinberg, È. B., 90h:22001** *and* **Lyubich, Yu. I., 90i:22001**
Lyubich, Yu. I. ★ Introduction to the theory of Banach representations of groups. **90i:22001**
Vinberg, È. B. ★ Linear representations of groups. **90h:22001**

Items with secondary classifications in 22–01

(Antelmann, Horst) *see* **Dieudonné, Jean, 90e:00001**
Belinfante, Johan G. F. (*with* Kolman, Bernard) ★ A survey of Lie groups and Lie algebras with applications and computational methods. **90k:22033**
(Boll, Ludwig) *see* **Dieudonné, Jean, 90e:00001**
Chebotarevskiĭ, B. D. *see* **Duzhin, S. V., 90d:00005**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2] **90e:00001**
Duzhin, S. V. (*with* Chebotarevskiĭ, B. D.) ★ От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] **90d:00005**
Kolman, Bernard *see* **Belinfante, Johan G. F., 90k:22033**
Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] **90h:53002**

22–02 Advanced exposition (research surveys, monographs, etc.)

Bott, Raoul On induced representations. **90c:22001**
(Burger, Marc) *see* **de la Harpe, Pierre, 90m:22001**
de la Harpe, Pierre (*with* Valette, Alain) La propriété (T) de Kazhdan pour les groupes localement compacts (avec un appendice de Marc Burger). (English summary) [Kazhdan's property (T) for locally compact groups (with an appendix by Marc Burger)] **90m:22001**
Mackey, George W. ★ Unitary group representations in physics, probability, and number theory. **90m:22002**
Valette, Alain *see* **de la Harpe, Pierre, 90m:22001**

Items with secondary classifications in 22–02

Carter, R. W. ★ Simple groups of Lie type. **90g:20001**
Mackey, George W. Induced representations and the applications of harmonic analysis. **90c:22021**
Paterson, Alan L. T. ★ Amenability. **90e:43001**

22–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 22–03

Pier, Jean-Paul Some views on the evolution of harmonic analysis. **90d:01041**

22–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 22–04

Elsner, L. *see* **Watkins, D. S., 90g:65056**
Watkins, D. S. (*with* Elsner, L.) Self-equivalent flows associated with the generalized eigenvalue problem. **90g:65056**

22–06 Proceedings, conferences, etc.

(Okamoto, Kiyosato) *see* **Representations of Lie groups, 90m:22004**
(Ōshima, Toshio) *see* **Representations of Lie groups, 90m:22004**
(Sally, P. J., Jr.) *see* **Representation theory and harmonic analysis on semisimple Lie groups, 90c:22002**
(Vogan, David A., Jr.) *see* **Representation theory and harmonic analysis on semisimple Lie groups, 90c:22002**

Items listed otherwise than by author

Hiroshima ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. **90m:22004**
Kyoto ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. **90m:22004**
Orbites unipotentes et représentations ★ Orbites unipotentes et représentations. III. [Unipotent orbits and representations. III] **90g:22027**
Representation theory and harmonic analysis on semisimple Lie groups ★ Representation theory and harmonic analysis on semisimple Lie groups. **90c:22002**
Representation theory and its applications to physics ★ Hyogenron to sono butsuriteki ōyō. (Japanese) [Representation theory and its applications to physics] **90m:22003**
Representations of Lie groups ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. **90m:22004**
Symposium:
  Analysis on Homogeneous Spaces and Representations of Lie Groups ★ Representations of Lie groups, Kyoto, Hiroshima, 1986. **90m:22004**
  Representation Theory and its Applications to Physics ★ Hyogenron to sono butsuriteki ōyō. (Japanese) [Representation theory and its applications to physics] **90m:22003**
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Items with secondary classifications in 22–06

(Gilmore, R.) *see* **Colloquium: Group Theoretical Methods in Physics, 90i:81003**

Items listed otherwise than by author

Colloquium:
  Group Theoretical Methods in Physics ★ XV International Colloquium on Group Theoretical Methods in Physics. **90i:81003**
Philadelphia, PA ★ XV International Colloquium on Group Theoretical Methods in Physics. **90i:81003**

22Axx Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 47D35.}

22A05 Structure of general topological groups

Arkhangel′skiĭ, A. V. (*with* Okunev, O. G.; Pestoff, V. G.) Free topological groups over metrizable spaces. **90h:22002**
Borubaev, A. A. Uniform groups and their completions. (Russian) **90c:22003**
Câmpian, M. (*with* Câmpian, V.) Bitopological groups in A. A. Ivanov's meaning. **90g:22001**
Câmpian, V. *see* **Câmpian, M., 90g:22001**
Chakrabarti, Sadasiv (*with* Lahiri, B. K.) Transformations of sets in topological group. (Russian and Slovak summaries) **90d:22001**
Clark, Bradd Evans (*with* Schneider, Victor P.) Atoms and antiatoms in the lattice of group topologies. **90d:22002**
Cleary, Joan (*with* Morris, Sidney A.) Locally dyadic topological groups. **90m:22005**
Comfort, W. W. (*with* van Mill, Jan) On the existence of free topological groups. **90e:22001**
Fay, Temple H. (*with* Walls, Gary L.) Compact nilpotent groups. **90j:22001**
Fokkink, Robbert A note on pseudocompact groups. **90c:22004**
Lahiri, B. K. *see* **Chakrabarti, Sadasiv, 90d:22001**
Leischner, Martin (*with* Roelcke, Walter) On neutral subgroups of topological groups. **90c:22005**
Marin, E. I. Strengthening of a group topology of an abelian group up to a complete group. (Russian) **90c:22006**
van Mill, Jan *see* **Comfort, W. W., 90e:22001**
Morris, Sidney A. *see* **Cleary, Joan, 90m:22005**
Mukhin, Yu. N. ★ Обобщенно коммутативные локально-компактные группы. (Russian) [Generalized-commutative locally compact groups] **90b:22001**
Okunev, O. G. *see* **Arkhangel′skiĭ, A. V.; et al., 90h:22002**
Pestoff, V. G. *see* **Arkhangel′skiĭ, A. V.; et al., 90h:22002**
Porst, Hans-E. Erratum to: "On free topological algebras" [Cahiers Topologie Géom. Différentielle Catégoriques **28** (1987), no. 3, 235–253; MR 89e:22004]. **90e:22002**
Prasad, Damodar (*with* Singh, K. P.) Alliedness of subsets of quotient topological group. **90g:22002**
Protasov, I. V. (*with* Sariēv, A.) The semigroup of closed subsets of a topological group. (Russian. English summary) **90c:22007**
Roelcke, Walter *see* **Leischner, Martin, 90c:22005**
Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. **90g:22003**
Sariēv, A. *see* **Protasov, I. V., 90c:22007**
Schneider, Victor P. *see* **Clark, Bradd Evans, 90d:22002**
Singh, K. P. *see* **Prasad, Damodar, 90g:22002**
Sipacheva, O. V. Zero-dimensionality and completeness in free topological groups. I, II. (Russian) **90j:22002**
Tkachenko, M. G. Pseudocompact topological groups and their properties. **90i:22002**
Ursul, M. I. On the product of open-closed subsets of a topological group. (Russian) **90c:22008**
Walls, Gary L. *see* **Fay, Temple H., 90j:22001**
Wojtyński, Wojciech The enveloping group of a Lie algebra. **90i:22003**

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Alas, O. T. Some results on pseudocompact topological groups. (Serbo-Croatian summary) **90c:54001**
Beĭdar, K. I. (*with* Glavatskiĭ, S. T.; Mikhalēv, A. V.) Varieties of topological Ω-groups. (Russian) **90k:08007**
Comfort, W. W. (*with* van Mill, Jan) Concerning connected, pseudocompact abelian groups. **90k:54002**
Glavatskiĭ, S. T. *see* **Beĭdar, K. I.; et al., 90k:08007**
Goździk, Sławomir Lie algebra structure on the set of all one-parameter subgroups of certain metric groups. (Russian summary) **90e:22011**
Heath, R. W. Monotone normality in topological groups. (Serbo-Croatian summary) **90i:54074**
Isbell, J. (*with* Kříž, I.; Pultr, A.; Rosický, J.) Remarks on localic groups. **90f:18009**
Kříž, I. *see* **Isbell, J.; et al., 90f:18009**
Mader, A. (*with* Vinsonhaler, C.) Minimal Hausdorff topologies on abelian groups. **90h:20085**
Mikhalēv, A. V. *see* **Beĭdar, K. I.; et al., 90k:08007**
van Mill, Jan *see* **Comfort, W. W., 90k:54002**
Moerdijk, I. Prodiscrete groups and Galois toposes. **90h:18014**
Nyikos, Peter J. The Cantor tree and the Fréchet-Urysohn property. **90j:54029**
Pultr, A. *see* **Isbell, J.; et al., 90f:18009**
Rosický, J. *see* **Isbell, J.; et al., 90f:18009**
Vinsonhaler, C. *see* **Mader, A., 90h:20085**

22A10 Analysis on general topological groups

Fleischer, Isidore (*with* Traynor, Tim) Equicontinuity and uniform boundedness for noncommutative groups. **90m:22006**
Khadzhiev, Dzh. (*with* Muminov, K.) Linearly reductive representations of topological groups. (Russian) **90m:22007**
Muminov, K. *see* **Khadzhiev, Dzh., 90m:22007**
Traynor, Tim *see* **Fleischer, Isidore, 90m:22006**

Items with secondary classifications in 22A10

Frič, Roman Cauchy sequences in $\mathscr{L}$-groups. **90k:54063**
Grubb, D. J. U-sets in compact, 0-dimensional, metric groups. **90g:42052**

Onneweer, C. W. (*with* Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. **90b:43004**
Su, Wei Yi *see* **Onneweer, C. W., 90b:43004**
Vodop′yanov, S. K. Potential theory on homogeneous groups. **90h:31010**
Wojtyński, Wojciech The enveloping group of a Lie algebra. **90i:22003**

22A15 Structure of topological semigroups

DeVun, E. E. (*with* Graham, George E.) Semigroups with commuting threads. **90e:22003**
Graham, George E. *see* **DeVun, E. E., 90e:22003**
Helmer, Dietrich (*with* İşık, N.) Construction of right topological compactifications for discrete versions of subsemigroups of compact groups. **90f:22001**
Hofmann, Karl Heinrich (*with* Ruppert, Wolfgang A. F.) Foliations induced by congruences. **90g:22004**
Holmes, J. P. One parameter subsemigroups in locally compact differentiable semigroups. **90f:22002**
Hunter, R. P. On recognition and compactification. **90i:22004**
İşık, N. *see* **Helmer, Dietrich, 90f:22001**
Magill, K. D., Jr. More on the countability index and the density index of $S(X)$. **90m:22008**
Pap, Endre On approximately and bounded homomorphisms on uniform commutative semigroups. (Serbo-Croatian summary) **90m:22009**
Rasulov, N. S. Approximation of a compact topological semigroup by continuous bicharacters. (Russian) **90c:22009**
Ruppert, Wolfgang A. F. *see* **Hofmann, Karl Heinrich, 90g:22004**

Items with secondary classifications in 22A15

Craigen, R. (*with* Páles, Z.) The associativity equation revisited. **90g:39019**
Császár, Á. u-isomorphic semigroups of continuous functions in locally compact spaces. **90a:54048**
Gass, Michael An order topology for finitely generated free monoids. **90g:20088**
Karataeva, T. V. A semigroup of discontinuous evolution systems with respect to mixed summation. **90j:26003**
Lawson, Jimmie D. (*with* Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. **90b:06029**
Li, Bo Yu (*with* Wang, Shang Zhi; Pouzet, Maurice) Topologies and ordered semigroups. **90g:54001**
Mislove, Michael *see* **Lawson, Jimmie D.; et al., 90b:06029**
Páles, Z. *see* **Craigen, R., 90g:39019**
Pouzet, Maurice *see* **Li, Bo Yu; et al., 90g:54001**
Priestley, Hilary A. *see* **Lawson, Jimmie D.; et al., 90b:06029**
Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. **90g:22003**
Skryago, A. M. Finite-dimensional linear representations of compact regular semigroups. (Russian) **90b:22002**
Wang, Shang Zhi *see* **Li, Bo Yu; et al., 90g:54001**

22A20 Analysis on topological semigroups

Lyubich, Yu. I. *see* **Vũ Quốc Phóng, 90e:22004**
Vũ Quốc Phóng (*with* Lyubich, Yu. I.) A spectral criterion for asymptotic almost periodicity for uniformly continuous representations of abelian semigroups. (Russian) **90e:22004**

Items with secondary classifications in 22A20

Bisgaard, Torben M. On the continuity of convolution semigroups. **90i:28021**
Sakai, Koukichi Remarks on support filter for invariant means. **90h:43002a**
— On amenable transformation semigroups with countable invariant means. **90h:43002b**

22A25 Representations of general topological groups and semigroups

Aroyan, È. P. Approximations of compact topological semigroups by real linear continuous functionals. (Russian. Armenian summary) **90k:22001**
Skryago, A. M. On a problem of describing irreducible finite-dimensional linear representations of compact regular semigroups. (Russian) **90a:22001**
— Finite-dimensional linear representations of compact regular semigroups. (Russian) **90b:22002**

Items with secondary classifications in 22A25

Lyubich, Yu. I. *see* **Vũ Quốc Phóng, 90e:22004**
Rasulov, N. S. Approximation of compact topological semigroups by continuous bicharacters with respect to predicates. (Russian) **90j:20138**
Vũ Quốc Phóng (*with* Lyubich, Yu. I.) A spectral criterion for asymptotic almost periodicity for uniformly continuous representations of abelian semigroups. (Russian) **90e:22004**
Yáñez, M. Francisca Existence of geometrical or weakly geometrical Gel′fand models for some finite groups. **90j:20025**

22A26 Topological semilattices, lattices and applications [see also 06B30, 06F30]

Cohen, Haskell Bands on trees. **90e:22005**

Items with secondary classifications in 22A26

Lawson, Jimmie D. (*with* Mislove, Michael; Priestley, Hilary A.) Infinite antichains and duality theories. **90b:06029**
Mislove, Michael *see* **Lawson, Jimmie D.; et al., 90b:06029**
Priestley, Hilary A. *see* **Lawson, Jimmie D.; et al., 90b:06029**
van de Vel, M. A Helly property of arcs. **90c:06008**

22A30 Other topological algebraic systems and their representations

Porter, Kathryn F. Set-set topologies and semitopological groups. **90j:22003**

Items with secondary classifications in 22A30

Câmpian, M. (*with* Câmpian, V.) Bitopological groups in A. A. Ivanov's meaning. **90g:22001**
Câmpian, V. *see* **Câmpian, M., 90g:22001**
Kikkawa, Michihiko Projectivity of left loops on $\mathbf{R}^n$. **90i:53060**
Lawson, Jimmie D. Ordered manifolds, invariant cone fields, and semigroups. **90i:22014**
Uspenskiĭ, V. V. The Mal′tsev operation on countably compact spaces. **90h:54029**

22A99 None of the above, but in this section

Cakalli, H. Conservative methods on complete topological groups. **90i:22005**
Johnstone, Peter T. A constructive "closed subgroup theorem" for localic groups and groupoids. (French summary) **90e:22006**

Items with secondary classifications in 22A99

Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebras. **90m:08001**
Aoki, Nobuo (*with* Moriyasu, K.) Expansive homeomorphisms of solenoidal groups. **90i:58148**
Choban, M. M. The theory of stable metrics. **90j:54037**
Fleischer, Isidore Convergence completion of partially ordered groups. **90e:06031**
Goodaire, Edgar G. (*with* Polcino Milies, César) Isomorphisms of integral alternative loop rings. **90b:20058**
Harminc, Matúš Sequential convergences on cyclically ordered groups. (Russian summary) **90e:06032**
Higgs, D. A. Remarks on duality for Σ-groups. I. Products and coproducts. (French summary) **90h:20084**
Jakubík, Ján Convergences and complete distributivity of lattice ordered groups. (Russian summary) **90d:06025**
Morgan, Christopher Charles Gradige (*with* Piccinini, Renzo A.) Conjugacy classes of groups of bundle automorphisms. **90i:55029**
Moriyasu, K. *see* **Aoki, Nobuo, 90i:58148**
Pavel, Liliana Sur certaines propriétés des représentations induites des hypergroupes. [On certain properties of induced hypergroup representations] **90c:43005**
Piccinini, Renzo A. *see* **Morgan, Christopher Charles Gradige, 90i:55029**
Polcino Milies, César *see* **Goodaire, Edgar G., 90b:20058**

22Bxx Locally compact abelian (LCA) groups

22B05 General properties and structure of LCA groups

Akbarov, S. S. Vector fields on locally compact abelian groups. (Russian) **90c:22010**
Bognár, M. On embedding of locally compact abelian topological groups in Euclidean spaces. I. **90d:22003**
— On embedding of locally compact abelian topological groups in Euclidean spaces. II. **90d:22004**
Gali, I. M. Positive-definite functions on direct product (sum) of locally compact abelian groups. **90m:22010**
Hofmann, Karl Heinrich (*with* Wu, T. S.; Yang, Jeong Sheng) Equidimensional immersions of locally compact groups. **90a:22002**
Mukhin, Yu. N. (*with* Yakovenko, E. N.) A minimality condition for nonabelian subgroups in topological groups. (Russian) **90e:22007**
Székelyhidi, László On a problem of S. Mazur. **90b:22003**
Wu, T. S. *see* **Hofmann, Karl Heinrich; et al., 90a:22002**
Yakovenko, E. N. *see* **Mukhin, Yu. N., 90e:22007**
Yang, Jeong Sheng *see* **Hofmann, Karl Heinrich; et al., 90a:22002**

Items with secondary classifications in 22B05

Friedrich, Jürgen (*with* Klotz, L.) On extensions of positive definite operator-valued functions. **90h:43005**
Klotz, L. *see* **Friedrich, Jürgen, 90h:43005**

22B10 Structure of group algebras of LCA groups

Items with secondary classifications in 22B10

Ylinen, Kari Commutation properties of observables on locally compact abelian groups. **90d:81025**

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

Atzmon, Aharon Irreducible representations of abelian groups. **90c:22017**
Berenstein, Carlos A. (*with* Gay, Roger) Le problème de Pompeiu local. (English summary) [The local Pompeiu problem] **90c:31005**
Gay, Roger *see* **Berenstein, Carlos A., 90c:31005**
Salinger, D. L. (*with* Stegeman, J. D.) Spectral synthesis and difference spectra. **90a:43004**
Sasvári, Zoltán Definitizability of certain functions and the existence of eigenvectors of unitary operators in Pontrjagin spaces. **90a:47090**
Stegeman, J. D. *see* **Salinger, D. L., 90a:43004**

22C05 Compact groups

Backhouse, N. B. On the evaluation of the class operator for the rotation group. **90c:22011**
Blümlinger, M. Rajchman measures on compact groups. **90f:22003**
Helmer, Dietrich (*with* Pym, John) A short proof of $\beta(G\setminus\{1\})=G$ for nonmetrizable compact groups G. **90k:22002**
Khukhro, E. I. A remark on periodic compact groups. **90m:22011**
Lahiri, B. K. Density and sparse set topology. **90a:22003**
Pym, John *see* **Helmer, Dietrich, 90k:22002**
Rembieliński, J. A simple derivation of the class operator of the SU(2) group. **90c:22012**
Turnwald, Gerhard Roots of Haar measure and topological Hamiltonian groups. **90m:22012**

Items with secondary classifications in 22C05

Colzani, Leonardo (*with* Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. **90h:43003b**
Evens, Leonard (*with* Feshbach, Mark) Carlson's theorem on varieties and transfer. **90a:20108**
Fegan, H. D. (*with* Steer, B.) On the "strange formula" of Freudenthal and de Vries. **90b:17012**
Feshbach, Mark *see* **Evens, Leonard, 90a:20108**
Giulini, Saverio (*with* Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. **90h:43003a**
— *see also* **Colzani, Leonardo; et al., 90h:43003b**
Helmer, Dietrich (*with* İşık, N.) Construction of right topological compactifications for discrete versions of subsemigroups of compact groups. **90f:22001**
İşık, N. *see* **Helmer, Dietrich, 90f:22001**
Lewkowicz, R. E. Harmonic functions on homogeneous spaces of commutator induced extensions of compact groups. **90e:43007**
Lion, Georges Une caractérisation des normes euclidiennes en dimension finie. [A characterization of Euclidean norms in finite dimension] **90c:46030**
Platonov, S. S. An analogue of Fejér sums for Fourier series on the group SO(3). (Russian) **90d:43003**
Steer, B. *see* **Fegan, H. D., 90b:17012**
Travaglini, Giancarlo *see* **Giulini, Saverio, 90h:43003a** *and* **Colzani, Leonardo; et al., 90h:43003b**

22Dxx Locally compact groups and their algebras

Items with secondary classifications in 22Dxx

Doran, R. S. *see* **Fell, J. M. G., 90c:46001** *and* **90c:46002**
Fell, J. M. G. (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 1. **90c:46001**
— (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 2. **90c:46002**

22D05 General properties and structure of locally compact groups

Anker, Jean-Philippe A short proof of a classical covering lemma. **90c:22013**
Bagley, R. W. (*with* Wu, T. S.; Yang, Jeong Sheng) Locally compact groups: maximal compact subgroups and N-groups. **90b:22004**
— (*with* Wu, T. S.; Yang, Jeong Sheng) Compact and compactly generated subgroups of locally compact groups. **90g:22005**
De Wilde, M. (*with* Mukila wa Mukila, P.) Relations between the topological properties of homomorphisms of topological locally compact groups and their pull-back on spaces of locally integrable functions. **90m:22013**
Helmer, Dietrich Structure of locally compact groups with metrizable connected components up to negligible subsets. **90c:22014**
Milnes, Paul Uniformity and uniformly continuous functions for locally compact groups. **90i:22006**
Mukhin, Yu. N. Topological groups with a Dedekind lattice of closed subgroups. (Russian) **90b:22005**
Mukila wa Mukila, P. *see* **De Wilde, M., 90m:22013**
Panasyuk, S. P. Abelian limits of compact groups in a space of closed subgroups. (Russian) **90c:22015**
Piskunov, A. G. Cardinality of open σ-compact sets in the space of noncompact subgroups of a topological group. **90c:22016**
Wu, T. S. Automorphism groups of locally compact reductive groups. **90b:22006**
— *see also* **Bagley, R. W.; et al., 90b:22004** *and* **90g:22005**
Yang, Jeong Sheng *see* **Bagley, R. W.; et al., 90b:22004** *and* **90g:22005**

Items with secondary classifications in 22D05

Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. **90m:22021**
Kishimoto, Akitaka Outer automorphism subgroups of a compact abelian ergodic action. **90e:46059**
Matsumoto, Kengo Strongly stable factors, crossed products and property Γ. **90f:46096**
Mukhin, Yu. N. ★ Обобщенно коммутативные локально-компактные группы. (Russian) [Generalized-commutative locally compact groups] **90b:22001**
Salinger, D. L. (*with* Stegeman, J. D.) Spectral synthesis and difference spectra. **90a:43004**
Stegeman, J. D. *see* **Salinger, D. L., 90a:43004**
Szwarc, Ryszard A short proof of the Grigorchuk-Cohen cogrowth theorem. **90e:43002**
Wysoczański, Janusz Characterization of amenable groups and the Littlewood functions on free groups. **90d:43001**
Yuan, Chuan Kuan Inner invariant means and the regular conjugation representation of $L^1(G)$. **90g:43001**
— A property of locally compact groups. (Chinese. English summary) **90j:43002**

22D10 Unitary representations of locally compact groups

Bekka, Mohammed E. B. A characterization of locally compact amenable groups by means of tensor products. **90m:22014**
Funakoshi, Shunsuke (*with* Kawakami, Satoshi) On decompositions of induced cocycles. **90a:22004**
Gorbis, A. Z. (*with* Tempel'man, A. A.) The averaging of almost periodic functions and of finite-dimensional unitary representations on free groups. **90m:22015**
Kaniuth, Eberhard On tensor products of representations of motion groups. **90m:22016**
— On the conjugation representation of a locally compact group. **90k:22003**
Kawakami, Satoshi Representation theory of a locally compact group associated with a von Neumann algebra. **90e:22008**
— *see also* **Funakoshi, Shunsuke, 90a:22004**
Kirillov, A. A. Introduction to representation theory and noncommutative harmonic analysis. (Russian) **90a:22005**
Reiter, Hans Metaplectic groups and harmonic analysis. **90g:22006**
Tempel'man, A. A. *see* **Gorbis, A. Z., 90m:22015**

Items with secondary classifications in 22D10

Brągiel, Kazimierz The twisted SU(3) group. Irreducible $*$-representations of the C^*-algebra $C(S_\mu U(3))$. **90c:22020**
(Burger, Marc) *see* **de la Harpe, Pierre, 90m:22001**
Cao, Jian Min *see* **Wang, Shun Jin; et al., 90j:81091**
Chou, Ching Almost periodic operators in VN(G). **90d:43004**
Gauthier, J.-P. *see* **Gourd, François; et al.,** (Not in MR)
Gel'fand, I. M. (*with* Graev, M. I.; Vershik, A. M.) The commutative model of the principal representation of the current group $SL(2,\mathbf{R})^X$ with respect to a unipotent subgroup. **90f:22024**
Gourd, François (*with* Gauthier, J.-P.; Younes, Hussein) Une méthode d'invariants de l'analyse harmonique en reconnaissance de formes. (English summary) [Invariants from harmonic analysis for pattern recognition] (Not in MR)
Graev, M. I. *see* **Gel'fand, I. M.; et al., 90f:22024**
de la Harpe, Pierre (*with* Valette, Alain) La propriété (T) de Kazhdan pour les groupes localement compacts (avec un appendice de Marc Burger). (English summary) [Kazhdan's property (T) for locally compact groups (with an appendix by Marc Burger)] **90m:22001**
Howe, Roger E. (*with* Rosenberg, Jonathan) The unitary representation theory of GL(n) of an infinite discrete field. **90m:22018**
Milnes, Paul (*with* Paterson, Alan L. T.) Ergodic sequences and a subspace of $\mathbf{B}(G)$. **90a:43002**
Paterson, Alan L. T. *see* **Milnes, Paul, 90a:43002**
Quesne, C. An $sl(4,\mathbf{R})$ Lie algebraic approach to the Bargmann functions and its application to the second Pöschl-Teller equation. **90g:22030**
Rosenberg, Jonathan *see* **Howe, Roger E., 90m:22018**
Tadić, M. On limits of characters of irreducible unitary representations. (Serbo-Croatian summary) **90b:22019**
Valette, Alain *see* **de la Harpe, Pierre, 90m:22001**
Vershik, A. M. *see* **Gel'fand, I. M.; et al., 90f:22024**
Wang, Shun Jin (*with* Cao, Jian Min; Weiguny, A.) Continuous-variable representation of dynamic groups in quantum systems. **90j:81091**
Weiguny, A. *see* **Wang, Shun Jin; et al., 90j:81091**
Younes, Hussein *see* **Gourd, François; et al.,** (Not in MR)

22D12 Other representations of locally compact groups

Atzmon, Aharon Irreducible representations of abelian groups. **90c:22017**
Betori, W. (*with* Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. **90k:22004**
Faraut, J. *see* **Betori, W.; et al., 90k:22004**
Karakhanyan, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) **90f:22004**
Pagliacci, M. *see* **Betori, W.; et al., 90k:22004**
Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. **90c:22018**
Szwarc, Ryszard Matrix coefficients of irreducible representations of free products of groups. **90m:22017**

Items with secondary classifications in 22D12

Casati, P. Indecomposable representations of the group $SL(2,\mathbf{C})$ corresponding to the Gel'fand-Ponomarev representations of its Lie algebra. I. The nonsingular case. (Italian and Russian summaries) **90c:22037**
— Indecomposable representations of the group $SL(2,\mathbf{C})$ corresponding to the Gel'fand-Ponomarev representations of its Lie algebra. II. The singular case. (Italian and Russian summaries) **90c:22038**
Hitta, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**
Magyar, Zoltán On quotient measures and induced representations. **90i:22009**
Miyake, Katsuya (*with* Opolka, H.) A note on irreducible representations of profinite nilpotent groups. **90g:20037**
Opolka, H. *see* **Miyake, Katsuya, 90g:20037**
Pavel, Liliana Représentations induites généralisées dans les espaces de Banach. [Generalized induced representations in Banach spaces] **90c:22022**
Price, John F. (*with* Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. **90e:43003**
Sitaram, Alladi *see* **Price, John F., 90e:43003**

22D15 Group algebras of locally compact groups

Diarra, Bertin Autour des représentations holomorphes d'un groupe libre. [Concerning the holomorphic representations of a free group] **90f:22005**

Items with secondary classifications in 22D15

Derighetti, Antoine Convoluteurs et projecteurs. [Convolution and projection operators]

90g:43002
De Wilde, M. (*with* Mukila wa Mukila, P.) Relations between the topological properties of homomorphisms of topological locally compact groups and their pull-back on spaces of locally integrable functions. **90m:22013**
Kaniuth, Eberhard On the conjugation representation of a locally compact group. **90k:22003**
Mukila wa Mukila, P. *see* **De Wilde, M., 90m:22013**
Romanelli, Silvia A Godement-type decomposition for positive definite functions. **90h:43007**
Salinger, D. L. (*with* Stegeman, J. D.) Spectral synthesis and difference spectra. **90a:43004**
Stegeman, J. D. *see* **Salinger, D. L., 90a:43004**

22D20 Representations of group algebras

Ludwig, Jean Minimal C^*-dense ideals and algebraically irreducible representations of the Schwartz-algebra of a nilpotent Lie group. **90c:22019**

Items with secondary classifications in 22D20

Kaniuth, Eberhard On the conjugation representation of a locally compact group. **90k:22003**
Kawata, Shigeto Module correspondence in Auslander-Reiten quivers for finite groups. **90j:16068**
Kumjian, Alex On equivariant sheaf cohomology and elementary C^*-bundles. **90h:46102**

22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Boca, Florin (*with* Niţică, Viorel) Combinatorial properties of groups and simple C^*-algebras with a unique trace. **90i:22007**
Brągiel, Kazimierz The twisted SU(3) group. Irreducible $*$-representations of the C^*-algebra $C(S_\mu U(3))$. **90c:22020**
Doplicher, Sergio (*with* Roberts, John E.) A new duality theory for compact groups. **90k:22005**
de la Harpe, Pierre Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] **90d:22005**
Howe, Roger E. (*with* Rosenberg, Jonathan) The unitary representation theory of GL(n) of an infinite discrete field. **90m:22018**
Jolissaint, Paul K-theory of reduced C^*-algebras and rapidly decreasing functions on groups. **90j:22004**
— Rapidly decreasing functions in reduced C^*-algebras of groups. **90d:22006**
Kajiwara, Tsuyoshi Fourier inversion formula for discrete nilpotent groups. **90f:22006**
Kaniuth, Eberhard (*with* Taylor, Keith F.) Projections in C^*-algebras of nilpotent groups. **90i:22008**
Niţică, Viorel *see* **Boca, Florin, 90i:22007**
Paterson, Alan L. T. The class of locally compact groups G for which $C^*(G)$ is amenable. **90m:22019**
Roberts, John E. *see* **Doplicher, Sergio, 90k:22005**
Rosenberg, Jonathan *see* **Howe, Roger E., 90m:22018**
Schwalbe, Daniel K-theory for discrete subgroups of the Lorentz groups. **90k:22006**
Taylor, Keith F. *see* **Kaniuth, Eberhard, 90i:22008**

Items with secondary classifications in 22D25

Anderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**
Baaj, Saad (*with* Skandalis, Georges) C^*-algèbres de Hopf et théorie de Kasparov équivariante. (English summary) [Hopf C^*-algebras and equivariant Kasparov theory] **90j:46061**
Bekka, Mohammed E. B. A characterization of locally compact amenable groups by means of tensor products. **90m:22014**
Benson, Chal (*with* Jenkins, Joe W.; Ratcliff, Gail) On Gel′fand pairs associated with solvable Lie groups. **90m:22022**
Bigonnet, Bruno Construction d'une C^*-algèbre associée à certains feuilletages de Stefan. (English summary) [A C^*-algebra associated to some foliations with singularities] **90a:46173**
Bóna, Pavel The dynamics of a class of quantum mean-field theories. **90e:82017**
Bratteli, Ola (*with* Jørgensen, Palle E. T.) Conservative derivations and dissipative Laplacians. **90d:46089**
Chou, Ching Almost periodic operators in VN(G). **90d:43004**
Connes, Alain Compact metric spaces, Fredholm modules, and hyperfiniteness. **90i:46124**
Doplicher, Sergio (*with* Roberts, John E.) Compact group actions on C^*-algebras. **90f:46104**
— (*with* Roberts, John E.) Endomorphisms of C^*-algebras, cross products and duality for compact groups. **90j:46058**
Duncan, John (*with* Paterson, Alan L. T.) C^*-algebras of Clifford semigroups. **90e:46071**
Echterhoff, Siegfried (*with* Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. **90c:46083**
Effros, Edward G. Why the circle is connected: an introduction to quantized topology. **90d:46084**
Handelman, David E. (*with* Yin, Hong Sheng) Toeplitz extensions and automorphisms affiliated with linear characters of groups. **90a:46176**
Hannabuss, K. C. KMS states for reduced groups, theta functions and the Powers-Størmer construction. **90b:46115**
Jenkins, Joe W. *see* **Benson, Chal; et al., 90m:22022**
Jørgensen, Palle E. T. *see* **Bratteli, Ola, 90d:46089**
Kaniuth, Eberhard On the conjugation representation of a locally compact group. **90k:22003**
— *see also* **Echterhoff, Siegfried, 90c:46083**
Kishimoto, Akitaka Outer automorphism subgroups of a compact abelian ergodic action. **90e:46059**
Lau, A. T. (*with* Wong, J. C. S.) Weakly almost periodic elements in $L_\infty(G)$ of a locally compact group. **90m:43006**
Munch, Niels Juul Conditional expectations and wandering operators for automorphic group actions. **90d:46090**
Nest, Ryszard Cyclic cohomology of noncommutative tori. **90c:46089**
Ostrovskiĭ, V. L. (*with* Samoĭlenko, Yu. S.) Representation of $*$-algebras with two generators and polynomial relations. (Russian. English summary) **90k:46125**
Packer, Judith A. (*with* Raeburn, Iain) Twisted crossed products of C^*-algebras. **90g:46097**
Paschke, William *see* **Anderson, Joel, 90k:46126**
Paterson, Alan L. T. *see* **Duncan, John, 90e:46071**
Raeburn, Iain Induced C^*-algebras and a symmetric imprimitivity theorem. **90k:46144**
— *see also* **Packer, Judith A., 90g:46097**
Ratcliff, Gail *see* **Benson, Chal; et al., 90m:22022**
Rieffel, Marc A. Continuous fields of C^*-algebras coming from group cocycles and actions. **90b:46120**
Roberts, John E. *see* **Doplicher, Sergio, 90f:46104** *and* **90j:46058**
Robertson, A. G. Some abelian Banach algebras of operators on the matricial II_1 factor. **90k:46136**
Robinson, P. L. The Fourier-Weyl algebra. **90e:46061**
Rosenberg, Jonathan K-theory of group C^*-algebras, foliation C^*-algebras, and crossed products. **90a:46185**
Samoĭlenko, Yu. S. *see* **Ostrovskiĭ, V. L., 90k:46125**
Skandalis, Georges *see* **Baaj, Saad, 90j:46061**
Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. **90c:22018**
— (*with* Takesaki, Masamichi) Actions of discrete amenable groups on injective factors of type III_λ, $\lambda \neq 1$. **90k:46142**
Szymański, Wojciech Group C^*-algebras as algebras of "continuous functions" with noncommuting variables. **90b:46113**
Takesaki, Masamichi *see* **Sutherland, Colin E., 90k:46142**
Tomiyama, Jun ★ Invitation to C^*-algebras and topological dynamics. **90a:46177**
Walter, Martin E. On a new method for defining the norm of Fourier-Stieltjes algebras. **90e:43004**
Wang, Xiaolu ★ The C^*-algebras of a class of solvable Lie groups. **90j:46060**
Wong, J. C. S. *see* **Lau, A. T., 90m:43006**
Yin, Hong Sheng Two C^*-algebras related to the discrete Heisenberg group. **90d:46099**
— *see also* **Handelman, David E., 90a:46176**

22D30 Induced representations

Ali, S. Twareque (*with* De Bièvre, S.) Coherent states and quantization on homogeneous spaces. **90d:22007**
Baggett, Larry On the notion of virtual amenability for groups. **90b:22007**
De Bièvre, S. *see* **Ali, S. Twareque, 90d:22007**
Mackey, George W. Induced representations and the applications of harmonic analysis. **90c:22021**
Magyar, Zoltán On quotient measures and induced representations. **90i:22009**
Obata, Nobuaki Some remarks on induced representations of infinite discrete groups. **90h:22003**
Pavel, Liliana Représentations induites généralisées dans les espaces de Banach. [Generalized induced representations in Banach spaces] **90c:22022**

Items with secondary classifications in 22D30

Echterhoff, Siegfried (*with* Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. **90c:46083**
— On induced covariant systems. **90f:46105**
Howe, Roger E. (*with* Rosenberg, Jonathan) The unitary representation theory of GL(n) of an infinite discrete field. **90m:22018**
Kaniuth, Eberhard On tensor products of representations of motion groups. **90m:22016**
— *see also* **Echterhoff, Siegfried, 90c:46083**
Raeburn, Iain Induced C^*-algebras and a symmetric imprimitivity theorem. **90k:46144**
Rosenberg, Jonathan *see* **Howe, Roger E., 90m:22018**
Šťovíček, P. Systems of imprimitivity for the diffeomorphism group. II. **90a:22021**

22D35 Duality theorems

Frič, Roman An example of a self-dual convergence group. (German, Russian and Slovak summaries) **90b:22008**

Items with secondary classifications in 22D35

Doplicher, Sergio (*with* Roberts, John E.) Compact group actions on C^*-algebras. **90f:46104**
— (*with* Roberts, John E.) Endomorphisms of C^*-algebras, cross products and duality for compact groups. **90j:46058**
— (*with* Roberts, John E.) A new duality theory for compact groups. **90k:22005**
Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] **90f:43002**
Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] **90i:22015**
Raeburn, Iain On crossed products and Takai duality. **90d:46093**
Roberts, John E. *see* **Doplicher, Sergio, 90f:46104; 90j:46058** *and* **90k:22005**
Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. **90c:22018**
Vaĭnerman, L. I. Nonunimodular quantized hypercomplex systems. (Russian. English summary) **90h:46099**
Woronowicz, S. L. Tannaka-Kreĭn duality for compact matrix pseudogroups. Twisted SU(N) groups. **90e:22033**

22D40 Ergodic theory on groups [see also 28Dxx and 43A60]

Ageev, O. N. Conjugacy of a group action to its inverse. (Russian) **90i:22010**
Fujiwara, Masako (*with* Hamachi, Toshihiro; Osikawa, Motosige) Flow equivalence of translations on compact metric abelian groups. **90b:22009**
Golodets, V. Ya. (*with* Sinel′shchikov, S. D.) Regularization of actions of groups and groupoids on measured equivalence relations. **90f:22007**
Hamachi, Toshihiro *see* **Fujiwara, Masako; et al., 90b:22009**
Ihrig, Edwin C. (*with* McMahon, Douglas; Wu, T. S.) Distal flows of nonabelian groups with finite codimension. **90c:22023**
McMahon, Douglas *see* **Ihrig, Edwin C.; et al., 90c:22023**
Osikawa, Motosige *see* **Fujiwara, Masako; et al., 90b:22009**
Sinel′shchikov, S. D. *see* **Golodets, V. Ya., 90f:22007**
Wu, T. S. *see* **Ihrig, Edwin C.; et al., 90c:22023**
Yamagami, Shigeru On factor decomposition of an ergodic groupoid. **90h:22004**

Items with secondary classifications in 22D40

Adams, Scot Indecomposability of treed equivalence relations. **90m:28022**
Bratteli, Ola (*with* Elliott, George A.; Goodman, Fred; Jørgensen, Palle E. T.) Smooth Lie group actions on noncommutative tori. **90i:46116**
Elliott, George A. *see* **Bratteli, Ola; et al., 90i:46116**
Fëdorov, A. L. *see* **Veksler, A. S., 90c:28032; 90i:28035** *and* **Rubshteĭn, B. A., 90k:28036**
Goodman, Fred *see* **Bratteli, Ola; et al., 90i:46116**
Jørgensen, Palle E. T. *see* **Bratteli, Ola; et al., 90i:46116**
King, Jonathan (*with* Weiss, Benjamin) A group rotation factor of a nonrigid rank-1 map. **90b:28019**
Longo, Roberto Restricting a compact action to an injective subfactor. **90f:46106**
Lo Schiavo, M. Generating new invariants and related ergodicity. (Italian summary) **90i:28034**
Milnes, Paul (*with* Paterson, Alan L. T.) Ergodic sequences and a subspace of $\mathbf{B}(G)$. **90a:43002**
Paterson, Alan L. T. *see* **Milnes, Paul, 90a:43002**
Rubshteĭn, B. A. (*with* Fëdorov, A. L.) Defining families of subpartitions of the trajectory partition of a countable ergodic group. (Russian) **90k:28036**
Schmidt, Klaus D. Strong ergodicity and quotients of equivalence relations. **90b:28026**
— Mixing automorphisms of compact groups and a theorem by Kurt Mahler. **90c:28031**
Veksler, A. S. (*with* Fëdorov, A. L.) On the conjugacy of homomorphisms of locally compact groups with respect to the outer group of a measurable equivalence relation. **90c:28032**
— (*with* Fëdorov, A. L.) Representation of an outer group of a measurable equivalence relation by a group of connected polymorphisms. (Russian) **90i:28035**
Weiss, Benjamin *see* **King, Jonathan, 90b:28019**
Witte, Dave Rigidity of horospherical foliations. **90i:58092**
Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. **90a:28030**

22D99 None of the above, but in this section

Born, Èike Projective Lie algebra bases of a locally compact group and uniform differentiability. **90f:22008**

Items with secondary classifications in 22D99

Friedrich, Jürgen (*with* Schmüdgen, Konrad) n-positivity of unbounded $*$-representations. **90j:47055**
Lattermann, Stefan ★ Tannakakategorien. (German) [Tannakian categories] **90k:18009**
Ruppert, Wolfgang A. F. On open subsemigroups of connected groups. **90g:22003**
Schmüdgen, Konrad *see* **Friedrich, Jürgen, 90j:47055**
Woess, Wolfgang Amenable group actions on infinite graphs. **90m:43003**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

Items with secondary classifications in 22Exx

Doran, R. S. *see* **Fell, J. M. G., 90c:46001** *and* **90c:46002**
Fell, J. M. G. (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 1. **90c:46001**
— (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 2. **90c:46002**

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Almeida, P. A direct approach to one variable noncommutative calculus. **90e:22009**
Barannik, L. F. Invariants of subgroups of the extended Poincaré group $\widetilde{P}(1,n)$. (Russian) **90h:22005**
Chak″rov, Edi Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) **90g:22007**
Jing, Si Cong (*with* Ruan, Tu Nan) Generalized Baker-Hausdorff formula and its application. **90m:22020**
Kotel′nikov, G. A. Invariance of Maxwell homogeneous equations relative to the Galilei transformations. **90b:22010**
Ruan, Tu Nan *see* **Jing, Si Cong, 90m:22020**
Rund, Hanno Differential-geometric structures associated with families of r-parameter point transformations. **90h:22006**
Thompson, Robert C. Convergence proof for Goldberg's exponential series. **90i:22011**
Tu, Gui Zhang An elementary proof of the Campbell-Hausdorff formula. (Chinese summary) **90a:22006**

Items with secondary classifications in 22E05

Almeida, P. Noncommutative Schwarz lemmata. **90a:58017**
Anderson, Mitch Strongly differentiable monoids with smooth boundary. **90j:58005**
Batalin, I. A. (*with* Vilkoviskiĭ, G. A.) Closure of the gauge algebra, generalized Lie equations, and Feynman rules. **90d:81084**
Boyer, C. P. (*with* Winternitz, P.) Symmetries of the self-dual Einstein equations. I. The infinite-dimensional symmetry group and its low-dimensional subgroups. **90j:83049**
Bruhn, B. Lie series and canonical transformations in complex phase space. **90c:81055**
Chebotarevskiĭ, B. D. *see* **Duzhin, S. V., 90d:00005**
Dorodnitsyn, V. A. (*with* Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) **90m:58230**
— The Newton group and commutativity properties of Lie-Bäcklund operators in difference spaces. (Russian) **90m:58231**
Duzhin, S. V. (*with* Chebotarevskiĭ, B. D.) ★ От орнаментов до дифференциальных уравнений. (Russian) [From ornaments to differential equations] **90d:00005**
Egorchenko, I. A. *see* **Fushchich, V. I., 90i:35013**
Elenin, G. G. *see* **Dorodnitsyn, V. A., 90m:58230**
Fedorchuk, I. M. Reduction of the relativistic Hamilton equation. (Russian) **90g:35136**
Fushchich, V. I. (*with* Zhdanov, R. Z.) Symmetry and exact solutions of the nonlinear Dirac equation. **90b:58277**
— (*with* Egorchenko, I. A.) Differential invariants of the Galilei algebra. (Russian. English summary) **90i:35013**
— (*with* Zhdanov, R. Z.) Symmetry and exact solutions of nonlinear spinor equations. **90f:81046**
Jaulent, Marcel (*with* Manna, Miguel A.; Martínez Alonso, Luis) Multiseries Lie groups and symptotic modules for characterizing and solving integrable models. **90h:58041**
Katzin, Gerald H. (*with* Levine, Jack) Characteristic functional structure of infinitesimal symmetry mappings of classical dynamical systems. IV. Classical (velocity-independent) mappings of second-order differential equations. **90h:58073**
Leach, P. G. L. *see* **Mahomed, F. M., 90k:58192**
Levine, Jack *see* **Katzin, Gerald H., 90h:58073**
Mahomed, F. M. (*with* Leach, P. G. L.) Equivalence classes of differential equations. **90k:58192**
Manna, Miguel A. *see* **Jaulent, Marcel; et al., 90h:58041**
Martínez Alonso, Luis *see* **Jaulent, Marcel; et al., 90h:58041**
Olver, Peter J. ★ Приложения групп Ли к дифференциальным уравнениям. (Russian) [Applications of Lie groups to differential equations] **90j:58163**
Pohle, H.-J. (*with* Wolf, Thomas Otto) Automatic determination of dynamical symmetries of ordinary differential equations. (German summary) (Not in MR)
Segeda, Yu. N. Invariant solutions of the multidimensional Liouville equation. (Russian. English summary) **90d:35188**
(Shabat, A. B.) *see* **Olver, Peter J., 90j:58163**
(Shcherbak, I. G.) *see* **Olver, Peter J., 90j:58163**
Termini, Domenica Infinitesimal group analysis for the Riemann system. (Italian summary) **90h:35148**
Vilkoviskiĭ, G. A. *see* **Batalin, I. A., 90d:81084**
Winternitz, P. *see* **Boyer, C. P., 90j:83049**
Wolf, Thomas Otto *see* **Pohle, H.-J.,** (Not in MR)
Zhdanov, R. Z. *see* **Fushchich, V. I., 90b:58277** *and* **90f:81046**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Mirman, R. Complex groups, quantum mechanics, and the dimension and reality of space. **90i:22012**
Pianzola, A. (*with* Weiss, Alfred R.) Monstrous E_{10}'s and a generalization of a theorem of L. Solomon. **90k:22007**
Weiss, Alfred R. *see* **Pianzola, A., 90k:22007**

Items with secondary classifications in 22E10

Bose, Asok Dynkin's method of computing the terms of the Baker-Campbell-Hausdorff series. **90h:17050**
Finley, J. D., III *see* **Plebański, J. F., 90f:22011**
Plebański, J. F. (*with* Finley, J. D., III) On linear unitary transformations of two canonical variables. **90f:22011**

22E15 General properties and structure of real Lie groups

Adeleke, S. A. Discontinuous automorphisms of the proper Galilei and Euclidean groups. **90f:22009**
Finley, J. D., III *see* **Plebański, J. F., 90f:22011**
Gichev, V. M. Invariant orderings in solvable Lie groups. **90i:22013**
Gorbatsevich, V. V. Plesio-compact homogeneous spaces. **90f:22010**
Hebda, James J. (*with* Moylan, Patrick Joseph) Recent results on group decompositions and some applications. **90j:22005**
Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. **90m:22021**
Lawson, Jimmie D. Ordered manifolds, invariant cone fields, and semigroups. **90i:22014**
Moskalenko, Yu. D. Connected subgroups of the group O(3, 3). (Russian) **90g:22008**
Moylan, Patrick Joseph *see* **Hebda, James J., 90j:22005**
Mukunda, N. *see* **Simon, Rajiah; et al., 90h:22007**
Murakami, Shingo Exceptional simple Lie groups and related topics in recent differential geometry. **90g:22009**
Onishchik, A. L. On the centre of a transitive semisimple Lie group. **90e:22010**
Plebański, J. F. (*with* Finley, J. D., III) On linear unitary transformations of two canonical variables. **90f:22011**
Podoksënov, M. N. A class of transformations of Lie groups. **90k:22008**
Simon, Rajiah (*with* Mukunda, N.; Sudarshan, E. C. G.) The theory of screws: a new geometric representation for the group SU(1, 1). **90h:22007**
Strambach, Karl Partitions of Lie groups and algebraic groups. **90a:22007**
Sudarshan, E. C. G. *see* **Simon, Rajiah; et al., 90h:22007**

Items with secondary classifications in 22E15

Chak″rov, Edi Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) **90g:22007**

Dotti Miatello, Isabel G. Transitive group actions and Ricci curvature properties. **90a:53055**

Hilgert, Joachim (*with* Hofmann, Karl Heinrich) Compactly embedded Cartan algebras and invariant cones in Lie algebras. **90f:17008**

Hofmann, Karl Heinrich *see* **Hilgert, Joachim, 90f:17008**

Jiang, Jia Fu On the classification of the real simple Lie algebras D_4 by inner conjugation. (Chinese. English summary) **90b:17013**

Khosrovyan, O. M. Homogeneous spaces with two ends and positive Euler characteristics. **90c:53122**

Lichnerowicz, André (*with* Medina Perea, Alberto) On Lie groups with left-invariant symplectic or Kählerian structures. **90j:53067**

Lin, James P. Lie groups from a homotopy point of view. **90d:55012**

Liu, Jun^2 (*with* Polchinski, Joseph) Renormalization of the Möbius volume. **90c:81128**

Medina Perea, Alberto *see* **Lichnerowicz, André, 90j:53067**

Polchinski, Joseph *see* **Liu, Jun^2, 90c:81128**

Teufel, Eberhard Kinematische Berührformeln in Riemannschen homogenen Räumen. [Kinematic tangent formulas in Riemannian homogeneous spaces] **90g:53083**

Vassallo, Salvatore The subgroups of the affine transformation group of the space A^n. (Italian. French summary) **90i:53013**

Wu, T. S. Automorphism groups of locally compact reductive groups. **90b:22006**

22E20 General properties and structure of other Lie groups

Goździk, Sławomir Lie algebra structure on the set of all one-parameter subgroups of certain metric groups. (Russian summary) **90e:22011**

Items with secondary classifications in 22E20

Đoković, Dragomir Ž. An elementary proof of the structure theorem for connected solvable affine algebraic groups. **90a:20087**

Manin, Yu. I. Reflections on arithmetical physics. **90m:11195**

22E25 Nilpotent and solvable Lie groups

Benson, Chal (*with* Jenkins, Joe W.; Ratcliff, Gail) On Gel′fand pairs associated with solvable Lie groups. **90m:22022**

Bonnet, Pierre Paramétrisation du dual d'une algèbre de Lie nilpotente. [Parametrization of the dual of a nilpotent Lie algebra] **90d:22008**

Currey, Bradley N. (*with* Penney, Richard C.) The structure of the space of co-adjoint orbits of a completely solvable Lie group. **90f:22012**

Ivan, Gh. Quasisolvable Lie groups. (Romanian summary) **90g:22010**

Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. **90d:22009**

— *see also* **Benson, Chal; et al., 90m:22022**

Pedersen, Niels Vigand On the symplectic structure of coadjoint orbits of (solvable) Lie groups and applications. I. **90c:22024**

Penney, Richard C. *see* **Currey, Bradley N., 90f:22012**

Ratcliff, Gail *see* **Benson, Chal; et al., 90m:22022**

Items with secondary classifications in 22E25

Abdrakhimova, N. R. (*with* Guts, A. K.; Shalamova, N. L.) A synthetic theory of affine Lorentz manifolds, and ordered Lie groups. **90d:53076**

An, You Shan (*with* Luo, Xue Bo) A fundamental solution for the operator $\mathscr{L}_\alpha'$ on the Heisenberg group H^n. (Chinese) **90k:58258**

Anderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**

Benson, Chal (*with* Gordon, Carolyn S.) Kähler and symplectic structures on nilmanifolds. **90b:53042**

— (*with* Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. **90g:53079**

Cannon, J. W. (*with* Floyd, W. J.; Grayson, M. A.; Thurston, W. P.) Solvgroups are not almost convex. **90j:57007**

du Cloux, Fokko Représentations de longueur finie des groupes de Lie résolubles. [Representations of finite length of solvable Lie groups] **90m:22023**

Dziubański, Jacek (*with* Hulanicki, Andrzej) On semigroups generated by left-invariant positive differential operators on nilpotent Lie groups. **90j:22008**

Echterhoff, Siegfried (*with* Kaniuth, Eberhard) Certain group extensions and twisted covariance algebras with generalized continuous trace. **90c:46083**

Floyd, W. J. *see* **Cannon, J. W.; et al., 90j:57007**

Ghanaat, Patrick Almost Lie groups of type $\mathbf{R}^n$. **90k:53074**

Ghys, Étienne *see* **Hector, Gilbert; et al., 90g:57024**

Gordon, Carolyn S. *see* **Benson, Chal, 90b:53042** *and* **90g:53079**

Grayson, M. A. *see* **Cannon, J. W.; et al., 90j:57007**

Guts, A. K. *see* **Abdrakhimova, N. R.; et al., 90d:53076**

Hebisch, Waldemar Sharp pointwise estimate for the kernels of the semigroup generated by sums of even powers of vector fields on homogeneous groups. **90k:58259**

Hector, Gilbert (*with* Ghys, Étienne; Moriyama, Yoichi) On codimension one nilfoliations and a theorem of Malcev. **90g:57024**

Hulanicki, Andrzej *see* **Dziubański, Jacek, 90j:22008**

Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. **90d:22010**

Kaniuth, Eberhard *see* **Echterhoff, Siegfried, 90c:46083**

Krasil′nikov, A. N. (*with* Shmel′kin, A. L.) On the laws of finite-dimensional representations of solvable Lie algebras and groups. **90b:17020**

Li, Zhi Bin (*with* Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) **90k:58221**

Luo, Xue Bo *see* **Li, Zhi Bin, 90k:58221** *and* **An, You Shan, 90k:58258**

Mitropol′skiĭ, Yu. A. (*with* Prikarpat·skiĭ, A. K.; Samoĭlenko, V. Gr.) An algebraic scheme for discrete approximations of linear and nonlinear dynamical systems of mathematical physics. **90a:58021**

Moriyama, Yoichi *see* **Hector, Gilbert; et al., 90g:57024**

Paschke, William *see* **Anderson, Joel, 90k:46126**

Price, John F. (*with* Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. **90c:43006**

Prikarpat·skiĭ, A. K. *see* **Mitropol′skiĭ, Yu. A.; et al., 90a:58021**

Samoĭlenko, V. Gr. *see* **Mitropol′skiĭ, Yu. A.; et al., 90a:58021**

Schempp, Walter The diamond solvable Lie group and fiber optical communication systems (*see* **90i:81003**)

— Extensions of the Heisenberg group and coaxial coupling of transverse eigenmodes. **90i:78032**

Shalamova, N. L. *see* **Abdrakhimova, N. R.; et al., 90d:53076**

Shmel′kin, A. L. *see* **Krasil′nikov, A. N., 90b:17020**

Sitaram, Alladi *see* **Price, John F., 90c:43006**

Thurston, W. P. *see* **Cannon, J. W.; et al., 90j:57007**

Yin, Hong Sheng Two C^*-algebras related to the discrete Heisenberg group. **90d:46099**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-Type I representations, etc.)

Chen, Sui Yang *see* **Fu, Chu Li, 90c:22025**

du Cloux, Fokko Représentations de longueur finie des groupes de Lie résolubles. [Representations of finite length of solvable Lie groups] **90m:22023**

Corwin, Lawrence (*with* Greenleaf, Frederick P.) A canonical approach to multiplicity formulas for induced and restricted representations of nilpotent Lie groups. **90b:22011b**

— (*with* Greenleaf, Frederick P.) Spectrum and multiplicities for restrictions of unitary representations in nilpotent Lie groups. **90b:22011a**

Cowling, Michael (*with* Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. **90h:22008**

Fu, Chu Li (*with* Chen, Sui Yang) Irreducible unitary representations for a class of generalized Heisenberg groups, and their applications. (Chinese. English summary) **90c:22025**

Greenleaf, Frederick P. *see* **Corwin, Lawrence, 90b:22011a** *and* **90b:22011b**

Haagerup, Uffe *see* **Cowling, Michael, 90h:22008**

Jørgensen, Palle E. T. Positive definite functions on the Heisenberg group. **90m:22024**

Lipsman, Ronald L. Orbital parameters for induced and restricted representations. **90a:22008**

— The Corwin-Greenleaf parity result fails for completely solvable Lie groups. **90j:22006**

Pedersen, Niels Vigand Geometric quantization and the universal enveloping algebra of a nilpotent Lie group. **90c:22026**

Wildberger, N. J. Convexity and unitary representations of nilpotent Lie groups. **90j:22007**

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Chumak, M. L. Multiplicities of the spectrum of representations connected with integrable G-invariant Hamiltonian systems. **90h:58036**

Currey, Bradley N. (*with* Penney, Richard C.) The structure of the space of co-adjoint orbits of a completely solvable Lie group. **90f:22012**

De Bièvre, S. Coherent states over symplectic homogeneous spaces. **90m:22032**

Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] **90i:22015**

Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. **90d:22009**

Penney, Richard C. *see* **Currey, Bradley N., 90f:22012**

Wiegmann, P. B. Multivalued functionals and geometrical approach for quantization of relativistic particles and strings. **90k:58080**

22E30 Analysis on real and complex Lie groups [see also 33A75, 43–XX]

Alexopoulos, Georges Quelques propriétés des fonctions harmoniques positives sur les groupes de Lie résolubles à croissance polynomiale du volume. (English summary) [Some properties of positive harmonic functions on solvable Lie groups of polynomial growth] **90c:22027**

Bump, Daniel (*with* Friedberg, Solomon) On Mellin transforms of unramified Whittaker functions on GL(3, C). **90k:22009**

Chaabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] **90k:22010**

Chen, Jie Cheng Heat kernels on normal Lie groups. **90f:22013**

Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. **90c:22028**

Debiard, Amédée (*with* Gaveau, Bernard) Fonctions hypergéométriques et fonctions sphériques pour un système de racines BC de rang 2. (English summary) [Hypergeometric functions and spherical functions for a root system of type BC and rank 2] **90a:22009**

— (*with* Gaveau, Bernard) Échelles hypergéométriques et polynômes sphériques des systèmes de racines BC de rang deux. (English summary) [Hypergeometric ladders and spherical polynomials of root systems of type BC and rank 2] **90g:22011**

Dourmashkin, Peter A Poisson-Plancherel formula for the universal covering group with Lie algebra of type B_n. **90g:22012**

Dziubański, Jacek (*with* Hulanicki, Andrzej) On semigroups generated by left-invariant positive differential operators on nilpotent Lie groups. **90j:22008**

El Hussein, Kahar Opérateurs différentiels invariants sur les groupes de déplacements. (English summary) [Differential operators that are invariant under motion groups] **90c:22029**

Faraut, J. (*with* Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric

cones] **90a:22010**
Friedberg, Solomon *see* **Bump, Daniel, 90k:22009**
Gaveau, Bernard *see* **Debiard, Amédée, 90a:22009** *and* **90g:22011**
Gel′fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Hypergeometric functions and toric varieties. **90m:22025**
— *see also* **Vasil′ev, V. A.; et al., 90b:22014**
Gindikin, S. G. Horospheres and twistors. **90g:22013**
Grélaud, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] **90i:22015**
Gutkin, E. Representations of Hecke algebras. **90c:22030**
Harinck, Pascale Fonctions généralisées sphériques induites sur $G_{\mathbf{C}}/G_{\mathbf{R}}$. (English summary) [Induced spherical generalized functions on $G_{\mathbf{C}}/G_{\mathbf{R}}$] **90m:22026**
Howe, Roger E. The oscillator semigroup. **90f:22014**
Hulanicki, Andrzej *see* **Dziubański, Jacek, 90j:22008**
Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. **90d:22010**
Jørgensen, Palle E. T. Second-order right-invariant partial differential equations on a Lie group. **90j:22009**
Kamoun, Lotfi Distributions coniques associées à SL(3, **R**). (English summary) [Conical distributions associated to SL(3, **R**)] **90b:22012**
Kapranov, M. M. *see* **Gel′fand, I. M.; et al., 90m:22025**
Kawazoe, Takeshi (*with* Miyazaki, Hiroshi) Fourier series with nonnegative coefficients on compact semisimple Lie groups. **90i:22016**
Korányi, A. *see* **Faraut, J., 90a:22010**
Krawczyk, Jarosław Hardy spaces on SU(2). **90b:22013**
Li, Am Gil (*with* Mal′tsev, V. M.) ★ Гармонические функции на группе SU(n). (Russian) [Harmonic functions on the group SU(n)] **90g:22014**
Lisiecki, Wojciech Blattner-Kostant-Sternberg pairing and Fourier transform on symmetric spaces. **90g:22015**
Mal′tsev, V. M. *see* **Li, Am Gil, 90g:22014**
Miyazaki, Hiroshi *see* **Kawazoe, Takeshi, 90i:22016**
Müller, Detlef Horst On Riesz means of eigenfunction expansions for the Kohn-Laplacian. **90i:22017**
Peetre, Jaak Some calculations related to Fock space and the Shale-Weil representation. **90e:22012**
Ricci, Fulvio (*with* Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. III. Fractional integration along manifolds. **90m:22027**
Saloff-Coste, Laurent Inégalités de Sobolev produit sur les groupes de Lie nilpotents. [Product Sobolev inequalities on nilpotent Lie groups] **90m:22028**
Sekiguchi, Jirō The orders of invariant eigendistributions. **90g:22016**
Shahshahani, Mehrdad Poincaré inequality, uncertainty principle, and scattering theory on symmetric spaces. **90g:22017**
Solomatina, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) **90a:22011**
Sommen, F. Spingroups and spherical means. III. **90i:22018**
Stein, E. M. *see* **Ricci, Fulvio, 90m:22027**
Varadarajan, V. S. The states of the character ring of a compact group. **90f:22015**
Vasil′ev, V. A. (*with* Gel′fand, I. M.; Zelevinskiĭ, A. V.) General hypergeometric functions on complex Grassmannians. (Russian) **90b:22014**
Zelevinskiĭ, A. V. *see* **Vasil′ev, V. A.; et al., 90b:22014** *and* **Gel′fand, I. M.; et al., 90m:22025**
Zhu, Fu Liu Riesz transformations on a noncompact symmetric space of rank one. (Chinese) **90m:22029**

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Agranovskiĭ, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. **90c:32048**
Aĭrapetyan, R. G. (*with* Graev, M. I.; Graev, M. M.; Oganesyan, G. R.) The Plancherel formula that is connected with an admissible complex of straight lines in CP^3. **90j:53093**
An, You Shan An explicit fundamental solution for the operator $\mathscr{L}_0'$ on the Heisenberg group H_n. (Chinese. English summary) **90f:58164**
— (*with* Luo, Xue Bo) A fundamental solution for the operator $\mathscr{L}_\alpha'$ on the Heisenberg group H^n. (Chinese) **90k:58258**
Anker, Jean-Philippe Le noyau de la chaleur sur les espaces symétriques $\mathrm{U}(p,q)/\mathrm{U}(p) \times \mathrm{U}(q)$. [The heat kernel on the symmetric spaces $\mathrm{U}(p,q)/\mathrm{U}(p) \times \mathrm{U}(q)$] **90f:58168**
Arnal, D. (*with* Cahen, M.; Gutt, S.) Exponential and holomorphic discrete series. **90k:22019**
Bakry, Dominique The Riesz transforms associated with second order differential operators. **90c:58186**
van den Ban, E. P. The principal series for a reductive symmetric space. I. H-fixed distribution vectors. **90a:22016**
Bonnet, Pierre Paramétrisation du dual d'une algèbre de Lie nilpotente. [Parametrization of the dual of a nilpotent Lie algebra] **90d:22008**
Cahen, M. *see* **Arnal, D.; et al., 90k:22019**
Chen, Guang Xiao A note on the spherical Fourier transform and invariant differential operators on the matrix hyperbolic space $\mathscr{R}_I$. (Chinese) **90f:43012**
— Fundamental solution of Poisson equation in classical Cartan domain $\mathscr{R}_I^*$. **90g:43006**
Christ, Michael On the regularity of inverses of singular integral operators. **90c:42022**
— Inversion in some algebras of singular integral operators. **90j:42041**
Colzani, Leonardo (*with* Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. **90h:43003b**
Cowling, Michael (*with* Meaney, Christopher) On a maximal function on compact Lie groups. **90a:43005**
Cui, Shang Bin Local fundamental solutions and local solvability of a class of left invariant differential operators on the Heisenberg group. (Chinese. English summary) **90i:58190**
Cummins, Thomas E. A pseudodifferential calculus associated to 3-step nilpotent groups. **90c:58176**
Dani, S. G. (*with* McCrudden, M.) On the factor sets of measures and local tightness of convolution semigroups over Lie groups. **90d:43005**
Drury, S. W. L^p estimates for certain generalizations of k-plane transforms. **90f:44002**
Faĭziev, V. A. Pseudocharacters on free groups and on some group constructions. **90a:20047**
Fan, Da Shan (*with* Xie, Jia Hai) A weak inequality for maximal Fejér operators on symplectic groups. (Chinese) **90m:43027**
Faraut, J. Formule du binôme généralisée. [The generalized binomial formula] **90k:43016**
Geisler, Michael H. G. Besov spaces on compact Lie groups. **90a:46072**
Gel′fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) A-discriminants and Cayley-Koszul complexes. **90k:14054**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Newton polyhedra of principal A-determinants. **90k:14055**
Giulini, Saverio (*with* Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. **90h:43003a**
— *see also* **Colzani, Leonardo; et al., 90h:43003b**
Głowacki, Paweł The Rockland condition for nondifferential convolution operators. **90k:43002**
Graev, M. I. *see* **Aĭrapetyan, R. G.; et al., 90j:53093**
Graev, M. M. *see* **Aĭrapetyan, R. G.; et al., 90j:53093**
Gustafson, Robert A. Multilateral summation theorems for ordinary and basic hypergeometric series in U(n). **90e:33015**
Gutt, S. *see* **Arnal, D.; et al., 90k:22019**
Hebisch, Waldemar Sharp pointwise estimate for the kernels of the semigroup generated by sums of even powers of vector fields on homogeneous groups. **90k:58259**
Hueber, H. A note on the computation of Green functions for sub-Laplacians on Lie algebras of type H. **90c:58177**
— (*with* Müller, Detlef Horst) Asymptotics for some Green kernels on the Heisenberg group and the Martin boundary. **90b:58257**
Janssen, A. J. E. M. Wigner weight functions and Weyl symbols of nonnegative definite linear operators. **90j:81050**
Kapranov, M. M. *see* **Gel′fand, I. M.; et al., 90k:14054** *and* **90k:14055**
Kirillov, A. A. Introduction to representation theory and noncommutative harmonic analysis. (Russian) **90a:22005**
Koornwinder, Tom H. Group theoretic interpretations of Askey's scheme of hypergeometric orthogonal polynomials. **90b:33024**
Kostant, Bertram (*with* Sternberg, Shlomo) The Schwartzian [Schwarzian] derivative and the conformal geometry of the Lorentz hyperboloid. **90j:53015**
Lemarie, Pierre Gilles Base d'ondelettes sur les groupes de Lie stratifiés. (English summary) [Basis of wavelets on stratified Lie groups] **90j:42066**
Li, Zhi Bin (*with* Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) **90k:58221**
Luo, Xue Bo *see* **Li, Zhi Bin, 90k:58221** *and* **An, You Shan, 90k:58258**
Matumoto, Hisayosi Whittaker vectors and the Goodman-Wallach operators. **90d:22018**
McCrudden, M. *see* **Dani, S. G., 90d:43005**
Meaney, Christopher *see* **Cowling, Michael, 90a:43005**
Mickelsson, J. (*with* Niederle, Jirí) Harmonic analysis on coset spaces. **90e:22036**
Miller, Willard, Jr. Symmetry techniques and orthogonality for q-series. **90k:33005**
Müller, Detlef Horst *see* **Hueber, H., 90b:58257**
Murty, M. Ram An introduction to Selberg's trace formula. **90e:11080**
Niederle, Jirí *see* **Mickelsson, J., 90e:22036**
Oganesyan, G. R. *see* **Aĭrapetyan, R. G.; et al., 90j:53093**
Onneweer, C. W. (*with* Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. **90b:43004**
Osborne, M. Scott (*with* Warner, Garth) On the Dini calculus. II. **90h:42018**
Oshima, Toshio A method of harmonic analysis on semisimple symmetric spaces. **90g:43007**
Pesenson, I. Z. Best approximations in a space of the representation of a Lie group. **90c:41071**
Peters, J. V. The Radon transform on $L^p(\mathbf{R}^n)$. (Not in MR)
Pintsov, David A. Invariant pattern recognition, symmetry, and Radon transforms. **90m:92100**
Platonov, S. S. An analogue of Fejér sums for Fourier series on the group SO(3). (Russian) **90d:43003**
— Invariant subspaces in some function spaces on symmetric spaces of rank 1. **90b:22022**
Price, John F. (*with* Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. **90c:43006**
— (*with* Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. **90e:43003**
Ricci, Fulvio (*with* Sjögren, Peter) Two-parameter maximal functions in the Heisenberg group. **90d:43006**
Richards, Donald St. P. Analogs and extensions of Selberg's integral. **90k:33003**
Rogov, V.-B. K. The Fourier-Mellin-Whittaker transform on horospheres of homogeneous pseudo-Riemannian symmetric spaces of rank 1. **90f:43010**
Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] **90j:43005**
Sitaram, Alladi *see* **Price, John F., 90c:43006** *and* **90e:43003**
Sjögren, Peter Asymptotic behaviour of generalized Poisson integrals in rank one symmetric spaces and in trees. **90h:22018**
— *see also* **Ricci, Fulvio, 90d:43006**
Stern, Mark L^2-index theorems on locally symmetric spaces. **90k:58212**
Sternberg, Shlomo *see* **Kostant, Bertram, 90j:53015**
Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $\mathrm{SO}_0(n,1)$. **90e:22027**
Strichartz, Robert S. Local harmonic analysis on spheres. **90f:43014**
Su, Wei Yi *see* **Onneweer, C. W., 90b:43004**
Terras, Audrey The central limit theorem for the symmetric space of GL(3). **90j:60015**
Travaglini, Giancarlo *see* **Giulini, Saverio, 90h:43003a** *and* **Colzani, Leonardo; et al., 90h:43003b**
Trombi, P. C. On Harish-Chandra's theory of the Eisenstein integral for real semisimple Lie groups. **90i:22026**
Unterberger, A. Analyse harmonique et analyse pseudo-différentielle du cône de lumière. (English summary) [Harmonic analysis and pseudodifferential analysis of the light cone]

90d:58152
Varchenko, A. N. Functional equations for the volume mapping. (Russian) **90g:32014**
Warner, Garth *see* **Osborne, M. Scott, 90h:42018**
Wawrzyńczyk, Antoni Spectral analysis on upper light cone in $\mathbf{R}^3$ and the Radon transform. **90b:43010**
Xie, Jia Hai *see* **Fan, Da Shan, 90m:43027**
Ye, Fang Cao Invariant differential operators on nonexceptional irreducible Riemannian symmetric spaces of the first type. (Chinese. English summary) **90m:32050**
Zelevinskiĭ, A. V. *see* **Gel′fand, I. M.; et al., 90k:14054** *and* **90k:14055**

22E35 Analysis on *p*-adic Lie groups [see also 11R56]

Ahumada, Guido Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] **90h:22009**
Murnaghan, Fiona Invariant meromorphic distributions on *p*-adic GL(n). **90f:22016**

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Akkouchi, Mohamed Une caractérisation du noyau de Poisson d'un arbre homogène. [A characterization of the Poisson kernel of a homogeneous tree] **90k:43015**
Aomoto, K. Algebraic equations for Green kernel on a tree. **90a:47072**
Betori, W. (*with* Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. **90k:22004**
Bouaziz-Kellil, Ferdaous Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] **90e:43008**
Chekhov, L. O. (*with* Mironov, A. D.; Zabrodin, A. V.) Multiloop calculations in *p*-adic string theory and Bruhat-Tits trees. **90k:14016**
Corwin, Lawrence (*with* Moy, Allen; Sally, P. J., Jr.) Degrees and formal degrees for division algebras and GL_n over a *p*-adic field. **90k:22025**
Faraut, J. Algèbres de Volterra et transformation de Laplace sphérique sur certains espaces symétriques ordonnés. [Volterra algebras and spherical Laplace transform on certain ordered symmetric spaces] **90e:43006**
— *see also* **Betori, W.; et al., 90k:22004**
Hassenforder, Claudie Les lois de Cauchy sur les bouts de l'arbre homogène. (English summary) [Cauchy distributions on the ends of the homogeneous tree] **90a:60012**
Hironaka, Yumiko (*with* Satō, Fumihiro) Spherical functions and local densities of alternating forms. **90c:11029**
— Spherical functions of Hermitian and symmetric forms. I. **90c:11027**
— Spherical functions of Hermitian and symmetric forms. III. **90c:11028**
Kuhn, Gabriella (*with* Soardi, P. M.) On the number of representations of an element in a polygonal Cayley graph. (Italian summary) **90h:05014**
Kutzko, Phil (*with* Manderscheid, David) On intertwining operators for $\mathrm{GL}_N(F)$, F a non-Archimedean local field. **90c:22054**
Manderscheid, David *see* **Kutzko, Phil, 90c:22054**
Meurice, Yannick Quantum mechanics with *p*-adic numbers. **90i:22029**
— The classical harmonic oscillator on Galois and *p*-adic fields. **90m:22049**
Mironov, A. D. *see* **Chekhov, L. O.; et al., 90k:14016**
Moy, Allen *see* **Corwin, Lawrence; et al., 90k:22025**
Pagliacci, M. *see* **Betori, W.; et al., 90k:22004**
Sally, P. J., Jr. *see* **Corwin, Lawrence; et al., 90k:22025**
Satō, Fumihiro *see* **Hironaka, Yumiko, 90c:11029**
Shahidi, Freydoon Third symmetric power *L*-functions for GL(2). **90m:11081**
Soardi, P. M. *see* **Kuhn, Gabriella, 90h:05014**
Su, Wei Yi Pseudodifferential operators in Besov spaces over local fields. **90h:47100**
Vladimirov, V. S. (*with* Volovich, I. V.) *p*-adic Schrödinger-type equation. **90m:81019**
Volovich, I. V. *see* **Vladimirov, V. S., 90m:81019**
Zabrodin, A. V. *see* **Chekhov, L. O.; et al., 90k:14016**

22E40 Discrete subgroups of Lie groups [see also 20Hxx and 32Nxx]

Borel, A. On the set of discrete subgroups of bounded covolume in a semisimple group. **90e:22013**
Casselman, W. Introduction to the Schwartz space of $\Gamma\backslash G$. **90e:22014**
Damian, F. L. Torsion-free discrete groups in Λ^3 that are generated by translations. (Russian) **90c:22031**
Dani, S. G. (*with* Margulis, G. A.) Values of quadratic forms at primitive integral points. **90k:22013b**
Dunbar, William D. Geometric orbifolds. **90k:22011**
Gorbatsevich, V. V. *see* **Vinberg, È. B.; et al., 90c:22036**
Hoffmann, Werner The trace formula for Hecke operators over rank one lattices. **90i:22019**
Ivanov, N. V. The rank of Teichmüller modular groups. **90e:22015**
Jiang, Cai Kun On the fundamental groups of noncompact symmetric spaces. (Chinese) **90e:22016**
Jørgensen, Troels (*with* Marden, Albert) Kleinian groups with quotients of finite volume. **90c:22032**
Klimenko, E. Ya. Discrete groups in the three-dimensional Lobachevskiĭ space that are generated by two rotations. **90e:22017**
Kobayashi, Toshiyuki Proper action on a homogeneous space of reductive type. **90k:22012**
Konno, Yasuko Cohomology of discrete subgroups of $\mathrm{Sp}(p,q)$. **90c:22033**
Lubotzky, Alexander (*with* Zimmer, Robert J.) Variants of Kazhdan's property for subgroups of semisimple groups. **90i:22020**
Marden, Albert *see* **Jørgensen, Troels, 90c:22032**
Margulis, G. A. Discrete subgroups and ergodic theory. **90k:22013a**
— *see also* **Dani, S. G., 90k:22013b**
Millson, John J. Deformations of representations of finitely generated groups. **90c:22034**
Mostow, G. D. Selberg's work on the arithmeticity of lattices and its ramifications. **90h:22010**
Piatetski-Shapiro, I. I. Nonarithmetic lattices in Lobachevsky spaces of arbitrary dimension. **90d:22011**
Savin, Gordan Limit multiplicities of cusp forms. **90c:22035**
Shvartsman, O. V. *see* **Vinberg, È. B.; et al., 90c:22036**
Taniguchi, Masahiko Examples of discrete groups of hyperbolic motions conservative but not ergodic at infinity. **90g:22018**
Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. **90h:22011**
Vinberg, È. B. (*with* Gorbatsevich, V. V.; Shvartsman, O. V.) Discrete subgroups of Lie groups. (Russian) **90c:22036**
Witte, Dave Topological equivalence of foliations of homogeneous spaces. **90d:22012**
Zimmer, Robert J. Representations of fundamental groups of manifolds with a semisimple transformation group. **90i:22021**
— *see also* **Lubotzky, Alexander, 90i:22020**

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Ahn, Changrim (*with* Walton, Mark A.) Spectra of strings on nonsimply-connected group manifolds. **90g:81205**
Apanasov, B. N. The geometry of Nielsen's hull for a Kleinian group in space and quasi-conformal mappings. **90k:57046**
Ash, Avner Parabolic cohomology of arithmetic subgroups of SL(2, **Z**) with coefficients in the field of rational functions on the Riemann sphere. **90e:11084**
Babenko, I. K. Closed geodesics, asymptotic volume and the characteristics of growth of groups. **90b:58219**
Bagger, Jonathan Twisted strings and orbifolds. (*see* **90i:81005**)
Bakas, I. Hamiltonian reduction and conformal symmetries in two dimensions. **90c:81150**
Baldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**
Benson, Chal (*with* Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. **90g:53079**
Bers, Lipman Finitely generated Kleinian groups. An introduction. **90i:20050**
Betori, W. (*with* Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. **90k:22004**
Birman, Joan S. Mapping class groups of surfaces. **90g:57013**
Boileau, Michel (*with* Zimmermann, B.) The π-orbifold group of a link. **90a:57005**
Brooks, Robert A construction of metrics of negative Ricci curvature. **90c:53099**
Bujalance, E. (*with* Martínez, Ernesto) A remark on NEC groups representing surfaces with boundary. **90a:20094**
Burger, Marc Grandes valeurs propres du laplacien et graphes. [Large eigenvalues of the Laplacian and graphs] (*see* **90m:58220**)
Buyalo, S. V. Closed geodesics on 2-dimensional orbifolds of nonpositive curvature. (Russian) **90h:53035**
Cannon, J. W. (*with* Floyd, W. J.; Grayson, M. A.; Thurston, W. P.) Solvgroups are not almost convex. **90j:57007**
Connes, Alain (*with* Moscovici, Henri) Conjecture de Novikov et groupes hyperboliques. (English summary) [Hyperbolic groups and the Novikov conjecture] **90e:57048**
Cowling, Michael (*with* Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. **90h:22008**
Dani, S. G. (*with* Margulis, G. A.) Values of quadratic forms at primitive integral points. (French summary) **90d:11080**
Deguchi, Tetsuo *see* **Wadati, Miki; et al., 90f:57015**
Derevnin, D. A. (*with* Mednykh, Al. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskiĭ space. **90a:30131**
Dwork, B. *see* **Baldassarri, F.; et al., 90m:30058**
Efrat, Isaac On the existence of cusp forms over function fields. **90g:11066**
Faraut, J. *see* **Betori, W.; et al., 90k:22004**
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Fendley, P. (*with* Ginsparg, P.) Noncritical orbifolds. **90m:82055**
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Fisk, Mark D. Five-point tree amplitude for the heterotic string. **90c:81175**
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de la Harpe, Pierre Groupes hyperboliques, algèbres d'opérateurs et un théorème de Jolissaint. (English summary) [Hyperbolic groups, operator algebras and Jolissaint's theorem] **90d:22005**
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Hildebrand, Martin (*with* Weeks, Jeffrey) A computer generated census of cusped hyperbolic 3-manifolds. **90f:57043**
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Lawson, Terry Compactness results for orbifold instantons. **90a:57052**
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Looijenga, Eduard L^2-cohomology of locally symmetric varieties. **90a:32044**
Magid, Andy R. Deformations of representations of discrete groups. **90d:20018**
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Makarov, V. S. Matrix representations of the fundamental groups of certain three-dimensional manifolds of constant negative curvature that have a finite measure. (Russian) **90d:53079**
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Maskit, Bernard ★ Kleinian groups. **90a:30132**
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Min-Oo, Maung Almost symmetric spaces. (French summary) **90g:53064**
Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. **90b:32040**
— (*with* Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. **90d:32045**
Moore, Gregory W. (*with* Seiberg, Nathan) Taming the conformal zoo. **90e:81217**
Morgan, John W. Trees and hyperbolic geometry. **90f:57044**
Morita, Shigeyuki On the structure and the homology of the Torelli group. **90h:57015**
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Pansu, Pierre Métriques de Carnot-Carathéodory et quasiisométries des espaces symétriques de rang un. (English summary) [Carnot-Carathéodory metrics and quasi-isometries of rank-one symmetric spaces] **90e:53058**
Paternain, Miguel Expansive flows and the fundamental group. **90m:58160**
Peschanski, R. (*with* Savoy, C. A.) Fermionic realizations of superstrings on orbifolds. **90h:81183**
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Schellekens, A. N. (*with* Warner, N. P.) Weyl groups, supercurrents and covariant lattices. II. **90c:81216**
Schwalbe, Daniel K-theory for discrete subgroups of the Lorentz groups. **90k:22006**
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Skora, Richard K. Splittings of surfaces. **90k:57016**
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Steinberg, Robert Tensor product theorems. **90d:20077**
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Susskind, Perry Kleinian groups with intersecting limit sets. **90f:57045**
Takai, Hiroshi Baum-Connes conjectures and their applications. **90b:58259**
Tanasi, Corrado The Euler-Poincaré characteristic of two-dimensional orbifolds. (Italian. English summary) **90e:57022**
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Tong, Yue Lin Lawrence (*with* Wang, Shu Ping) Geometric realization of discrete series for semisimple symmetric spaces. **90g:22024**
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Vogel, Pierre Représentations et traces des algèbres de Hecke. Polynôme de Jones-Conway. [Representations and traces of Hecke algebras. The Jones-Conway polynomial] **90e:57017**
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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. **90e:22018**
Feigin, B. L. (*with* Fuks, D. B.) Cohomology of Lie groups and Lie algebras. (Russian) **90k:22014**
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Hitta, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**
Mislin, Guido *see* **Friedlander, Eric M., 90f:22017**

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Cathelineau, J. L. Sur l'homologie de SL_2 à coefficients dans l'action adjointe. [SL_2-homology with coefficients in the adjoint action] **90h:57054**
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22E43 Structure and representation of the Lorentz group

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Faraut, J. (*with* Strasburger, Aleksander) Vecteurs de Whittaker et fonctions horisphériques. (English summary) [Whittaker vectors and horospherical functions for real hyperbolic spaces] **90b:22015**
Huszár, M. Addition theorems for the spherical functions of the Lorentz group. **90e:22020**
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Vassiliadis, Dimitris Wigner's little group and decomposition of Lorentz transformations. **90e:22021**
Wu, Jian Shi (*with* Alhassid, Y.) The potential group approach and hypergeometric differential equations. **90m:22030**

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Aliev, G. B. (*with* Mamedov, A. A.) The reduction from $\mathrm{SL}(2,\mathbf{C})\supset\mathrm{SL}(2,\mathbf{R})$ of representations of the complementary series. (Russian. English and Azerbaijani summaries) **90c:22043**
(**Antippa, A. F.**) *see* **Maccarrone, G. Daniele, 90i:83002**

Barannik, L. F. (*with* Lagno, V. I.) One-parameter subgroups of the generalized Poincaré group $P(2,n)$ and their invariants. **90i:58203**
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22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}

Alcalde, Carlos (*with* Sternheimer, D.) Analytic vectors, anomalies and star representations. **90h:22012**
Basu, Debabrata^2 Representations of SL(2, **R**) in a Hilbert space of analytic functions and a class of associated integral transforms. **90h:22013**
Biedenharn, L. C. (*with* Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. **90m:22031**
Branson, Thomas P. Group representations arising from Lorentz conformal geometry. **90b:22016**
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Cantoni, Vittorio Construction of indecomposable representations of inhomogeneous Lie groups. **90h:22014**
De Bièvre, S. Coherent states over symplectic homogeneous spaces. **90m:22032**
Deheuvels, René Décomposition de certains produits tensoriels de représentations de Spin(n). (English summary) [Decomposition of some tensor products of representations of Spin(n)] **90m:22033**
Đỗ Ngọc Diệp Multidimensional quantization. IV. The generic representations. **90k:22015**
Flath, Daniel E. An analogue of the Weyl algebra. **90a:22012**
Floratos, E. G. Representations of the quantum group $\mathrm{GL}_q(2)$ for values of q on the unit circle. **90m:22034**
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— Remarks on classical invariant theory. **90h:22015a**
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Kirillov, A. N. Clebsch-Gordan quantum coefficients. (Russian) **90c:22039**
Klink, W. H. (*with* Ton-That, T.) On resolving the multiplicity of arbitrary tensor products of the U(N) groups. **90e:22024**
Kostant, Bertram The principle of triality and a distinguished unitary representation of SO(4, 4). **90h:22016**
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Mantini, Lisa A. An L^2-cohomology construction of negative spin mass zero equations for U(p, q). **90c:22040**
Mori, Keiichi Spherical functions on connected unimodular Lie groups. **90d:22014**
— Reciprocity theorem and invariant differential operators. **90d:22013**
— Discrete series representations and K-theory of Hilbert C^* modules. **90g:22019**
Murray, M. K. (*with* Rice, J. W.) The generalised Borel-Weil theorem and integral geometry. **90g:22020**
Nakashima, Martin M. Indefinite harmonic forms and gauge theory. **90c:22041**
Nzotungicimpaye, Joachim Galilei-Newton law by symplectic realizations. **90c:22042**
Paneitz, S. M. (*with* Segal, Irving; Vogan, David A., Jr.) Analysis in space-time bundles. IV. Natural bundles deforming into and composed of the same invariant factors as the spin and form bundles. **90a:22013**
Penkov, I. B. Borel-Weil-Bott theory for classical Lie supergroups. (Russian) **90f:22018**
Proctor, Robert A. Interconnections between symplectic and orthogonal characters. **90h:22017**
de Prunelé, E. SU(1, 1), its connections with SU(2), and the vector model. **90b:22018**
Przebinda, Tomasz The oscillator duality correspondence for the pair O(2, 2), Sp(2, **R**). **90f:22019**
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Robinson, Derek W. Lie groups and Lipschitz spaces. **90k:22018**
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Tadić, M. On limits of characters of irreducible unitary representations. (Serbo-Croatian summary) **90b:22019**
Tiraboschi, Alejandro A relationship between the spherical functions of $\mathrm{SL}_2(\mathbf{R})$ and a 2-covering of $I_0(\mathbf{R}^2)$. (Spanish) **90i:22023**
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Education Ališauskas, Sigitas Bi-orthogonal and orthonormal Clebsch-Gordan coefficients of SU(3): analytic and algebraic approaches. **90c:22061**
Arshansky, R. (*with* Horwitz, L. P.) The quantum relativistic two-body bound state. II. The induced representation of SL(2, **C**). **90j:81059**
Barbasch, Dan The unitary dual for complex classical Lie groups. **90c:22044**
Beckers, J. (*with* Debergh, N.) Uncertainty, entropy and generalized SO(2, 1)-coherent states. (French summary) **90k:81099**
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Bertaut, Erwin-Félix Vecteurs et valeurs propres des opérateurs de symétries transitives dans les espaces E^n. (English summary) [Eigenvectors and eigenvalues of transitive symmetry operators in spaces E^n] **90d:20085**
(Billuard, J.-R.) *see* **Dixmier, Jacques, 90m:15047**
Blau, Matthias Constraints and polarizations. **90a:58059**
Böhm, Manfred (*with* Junker, G.) Group theoretical approach to path integration on spheres. **90b:81029**
Bouaziz-Kellil, Ferdaous Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] **90e:43008**
Bratteli, Ola (*with* Goodman, Fred; Jørgensen, Palle E. T.; Robinson, Derek W.) The heat semigroup and integrability of Lie algebras. **90a:47105**
Bressler, Paul (*with* Evens, Sam) The Schubert calculus, braid relations, and generalized cohomology. **90e:57074**
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Collingwood, David H. (*with* Irving, Ronald S.) A decomposition theorem for certain self-dual modules in the category $\mathcal{O}$. **90k:17010**
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Debiard, Amédée (*with* Gaveau, Bernard) Fonctions hypergéométriques et fonctions sphériques pour un système de racines BC de rang 2. (English summary) [Hypergeometric functions and spherical functions for a root system of type BC and rank 2] **90a:22009**
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Dixmier, Jacques Quelques aspects de la théorie des invariants. [Some aspects of invariant theory] **90m:15047**
Doty, Stephen Filtrations of rational representations of reductive groups of semisimple rank 1. **90i:20042**
Ehrenpreis, Leon Hypergeometric functions. **90f:33004**
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22E46 Semisimple Lie groups and their representations

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Scaramuzzi, Roberto A notion of rank for unitary representations of general linear groups. **90i:22032**
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Wehlau, David L. Some recent results on the Popov conjecture. **90m:14044**
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22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B35]

Daszkiewicz, Andrzej On the invariant ideals of the symmetric algebra $S.(V \oplus \Lambda^2 V)$. **90k:22023**
Ginzburg, V. A. Geometrical aspects of representation theory. **90e:22028**
Klink, W. H. (*with* Ton-That, T.) n-fold tensor products of $GL(N, \mathbf{C})$ and decomposition of Fock spaces. **90d:22020**
Muro, Masakazu A note on the holonomic system of invariant hyperfunctions on a certain prehomogeneous vector space. **90i:22027**
Rideau, G. Nontrivial extensions of a massless representation with definite helicity of the Poincaré group in 3 + 1 dimensions by the tensor product of two other massless representations with definite helicity. **90c:22051**
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Orbites unipotentes et représentations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**
Unipotent orbits and representations ★ Orbites unipotentes et représentations. I. [Unipotent orbits and representations. I] **90g:20003**

22E50 Representations of Lie and linear algebraic groups over local fields

Arthur, James The characters of supercuspidal representations as weighted orbital integrals. **90c:22052**
Aubert, Anne-Marie Correspondance de Howe et sous-groupes parahoriques. [Howe correspondence and parahoric subgroups] **90c:22053**

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22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

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26–XX Real functions [see also 54C30]

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26–04 Explicit machine computation and programs (not the theory of computation or programming)

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26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

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26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.}

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26A18 Iteration [see also 39B10, 47H10, 54H25, 58F08]

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26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

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26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Ahuja, Gopi An application of fractional differentiation to study the product of two distributions. **90d:26009**
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26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

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— (*with* Thomas, Alain) Systemes de numeration et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] **90m:11022**
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26A30 Singular functions, Cantor functions, functions with other special properties

Barnsley, Michael F. (*with* Elton, John H.; Hardin, D. P.; Massopust, P.) Hidden variable fractal interpolation functions. **90h:26004**
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Hardin, D. P. *see* **Barnsley, Michael F.; et al., 90h:26004**
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Kôno, N. On self-affine functions. II. **90c:26024**
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Pambuccian, Victor Another example of an exotic function. **90m:26013**
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26A33 Fractional derivatives and integrals

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— (*with* Kalla, Shyam) Application of fractional calculus to ordinary differential equations of Fuchs type. (Spanish summary) **90j:34010**

— *see also* **Owa, Shigeyoshi; et al., 90a:30113**

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26A36 Antidifferentiation

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Lakshmikantham, V. *see* **Hu, Shou Chuan, 90b:26010**

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Shisha, Oved Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem. **90m:30002a**

— Erratum: "Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem". **90m:30002b**

Thompson, H. B. Taylor's theorem using the generalized Riemann integral. **90d:26015**

Upton, C. J. F. Some new classes of almost periodic functions. **90m:42018**

26A42 Integrals of Riemann, Stieltjes and Lebesgue type [see also 28–XX]

Appling, William D. L. A transformation of variables characterization theorem for Stieltjes integrals. **90a:26013**

Baidya, S. *see* **Bose, M. K., 90f:26008**

Bose, M. K. (*with* Baidya, S.) Proximal Perron-Stieltjes integral. **90f:26008**

Bullen, P. S. (*with* Sarkhel, D. N.; Výborný, R.) A Riemann view of the Lebesgue integral. **90b:26009**

Cai, Ru Zhou On the definition of the Lebesgue integral. (Chinese) **90c:26030**

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Das, Usha (*with* Das, A. G.) A new characterization of k-fold Lebesgue integral. **90c:26031**

Dubois, Jacques (*with* M'Khalfi, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] **90c:26032**

D'yachkov, A. M. Conditions for the existence of Stieltjes integral of functions of bounded generalized variation. (Russian summary) **90h:26011**

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Gu, Xiao Ying *see* **Shen, Xie Chang, 90e:26017**

Hu, Shou Chuan (*with* Lakshmikantham, V.) Some remarks on generalized Riemann integral. **90b:26010**

Lakshmikantham, V. *see* **Hu, Shou Chuan, 90b:26010**

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— On the generalized Riemann integral defined by means of special partitions. **90d:26014**

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Shen, Xie Chang (*with* Gu, Xiao Ying) The differences between the Riemann integral and the Lebesgue integral. (Chinese) **90e:26017**

Thompson, H. B. Taylor's theorem using the generalized Riemann integral. **90d:26015**

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Yan, Zi Kun R_φ integrals and Riemann integrals. (Chinese. English summary) **90k:26014**

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Gevorkyan, G. G. Trigonometric integrals that are integrable by the Riemann method. (Russian) **90i:42017**

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Kozachenko, M. A necessary and sufficient condition for the isomorphism of multiplicative and additive systems without continuity conditions up to increasingly fine partitions. **90f:26029**

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Loos, Ottmar A nonstandard approach to the Lebesgue integral. **90j:03114**

Mao, Xue Rong Lebesgue-Stieltjes integral inequalities of the Greene type in N-independent variables. **90m:26024**

M'khalfi, A. On a generalized multiple integral and the divergence theorem. **90e:26025**

Musielak, J. *see* **Kamińska, A., 90i:46056**

26A45 Functions of bounded variation, generalizations

Chen, Quan De *see* **Shi, Xian Liang, 90i:26010**

Deb, T. K. (*with* De Sarkar, S.) On points of bounded kth variation. **90a:26015**

De Sarkar, S. (*with* Panda, Santimoy) Generalised Hölderian functions. **90j:26012**

— *see also* **Deb, T. K., 90a:26015**

Liu, Tie Fu On the spaces V_p and $V_{1,C}$. (Chinese. English summary) **90d:26016**

Mukhopadhyay, S. N. (*with* Sain, D. N.) On functions of bounded nth variation. **90e:26018**

Panda, Santimoy *see* **De Sarkar, S., 90j:26012**

Prus-Wiśniowski, Franciszek On superposition of functions of bounded φ-variation. **90i:26008**
— On ordered Λ-bounded variation. **90i:26009**
Sain, D. N. *see* **Mukhopadhyay, S. N., 90e:26018**
Sheng, Shu Yun Some properties of ΛBMV and $\varphi\Lambda$BMV functions. (Chinese) **90a:26016**
Shi, Xian Liang (*with* Chen, Quan De) On the classes ΛBV and $V[v]$. (Chinese. English summary) **90i:26010**
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Darmawijaya, Soeparna An Orlicz scale of integrals. **90c:26029**
Das, A. G. *see* **Das, S. K., 90h:26010**
Das, S. K. (*with* Das, A. G.) Generalized Laplace Stieltjes integral. **90h:26010**
D'yachkov, A. M. Conditions for the existence of Stieltjes integral of functions of bounded generalized variation. (Russian summary) **90h:26011**
Ene, Vasile Semicontinuity conditions and monotonicity. **90d:26018**
Ghosh, Sankar On term by term differentiation of Banach-space-valued functions. **90f:26028**
Gurzău, G. (*with* Gurzău, O. M.) A generalization of the convexity. (Romanian summary) **90g:26006**
Gurzău, O. M. *see* **Gurzău, G., 90g:26006**
Isaza, P. (*with* Waterman, Daniel) Fourier series with small gaps. **90c:42006**
Oniani, G. T. Topological characterization of some classes of continuous functions whose Fourier series converge uniformly. (Russian. English and Georgian summaries) **90k:42009**
Pawlak, Ryszard Jerzy Variation of Darboux functions. **90k:26021**
Pucci, Patrizia *see* **Cesari, Lamberto, 90h:49002**
Schwabik, Štefan Generalized differential equations: special results. (Russian summary) **90f:34003**
Upton, C. J. F. Some new classes of almost periodic functions. **90m:42018**
Waterman, Daniel *see* **Isaza, P., 90c:42006**

26A46 Absolutely continuous functions

Dzhavatov, D. K. *see* **Zagirov, N. Sh., 90b:26011**
Zagirov, N. Sh. (*with* Dzhavatov, D. K.) Constructive characterization of the class AC^*_M. (Russian) **90b:26011**

Items with secondary classifications in 26A46

Das, A. G. *see* **Das, Usha, 90c:26031**
Das, Usha (*with* Das, A. G.) A new characterization of k-fold Lebesgue integral. **90c:26031**
Ene, Vasile Semicontinuity conditions and monotonicity. **90d:26018**
— Answers to three questions of J. Foran: "Continuous functions—a survey" [Real Anal. Exchange **2** (1976/77), no. 2, 85–103; MR **58** #22429]. **90k:26009**
(Foran, James) *see* **Ene, Vasile, 90k:26009**
Wilansky, Albert On the proof of the Radon-Nikodým theorem. (Not in MR)

26A48 Monotonic functions, generalizations

Ene, Vasile Semicontinuity conditions and monotonicity. **90d:26018**
— A theorem which implies both Tolstoff's theorem and Zahorski's theorem on monotonicity. **90i:26011**
Gavrea, Ioan On a mean-value formula. **90c:26035**

Items with secondary classifications in 26A48

Freiling, C. Symmetric derivates, scattered, and semi-scattered sets. **90g:26003**
Simon, Károly Locally increasing points of nowhere differentiable functions. **90c:26022**
Trokhimchuk, Yu. Yu. Differentiable mappings with singularities. (Russian) **90a:26009**

26A51 Convexity, generalizations

Adamović, Dušan D. (*with* Pečarić, Josip E.) On Nanson's inequality and on some inequalities related to it. **90f:26009**
Buczolich, Z. Sets of convexity of continuous functions. **90c:26036**
— Ramsey type theorems for real functions. **90h:26012**
Dragomir, S. S. On logarithmically convex functions. (Romanian summary) **90a:26017**
Gurzău, G. (*with* Gurzău, O. M.) A generalization of the convexity. (Romanian summary) **90g:26006**
Gurzău, O. M. *see* **Gurzău, G., 90g:26006**
Hamburger, Christoph A characterization for rank-one-convexity in two dimensions. (Italian summary) **90e:26019**
Jovanović, Mirko S. On strong quasiconvex functions and boundedness of level sets. **90a:26018**
Kominek, Z. (*with* Kuczma, Marek) On the lower hull of convex functions. **90i:26012**
Kuczma, Marek *see* **Kominek, Z., 90i:26012**
Kuhn, Norbert On the structure of (s,t)-convex functions. **90i:26013**
Lai, Han Ch'ing (*with* Lin, Lai Chü) The Fenchel-Moreau theorem for set functions. **90i:26014**
Lin, Lai Chü *see* **Lai, Han Ch'ing, 90i:26014**
Mesihović, Behdžet A. *see* **Milovanović, Igor Ž.; et al., 90j:26013**
Milovanović, Igor Ž. (*with* Pečarić, Josip E.; Stojanović, Nebojša M.; Mesihović, Behdžet A.) On some characteristics of generalized convex sequences. **90j:26013**
Pečarić, Josip E. *see* **Adamović, Dušan D., 90f:26009** *and* **Milovanović, Igor Ž.; et al., 90j:26013**
Popoviciu, Elena Sur certains moments significatifs dans le développement de la théorie des fonctions convexes. [On certain significant moments in the development of the theory of convex functions] **90d:26019**
— Sur certains problèmes de recherche dans la théorie de l'allure. [Some research problems in the theory of allure] **90c:26037**
Precup, Radu Sur une théorie de l'allure et ses conséquences. [On a theory of allure and its consequences] **90d:26020**
— Fonctions convexes et fonctionnelles de forme simple. [Convex functions, and functionals of simple form] **90e:26020**
Stojanović, Nebojša M. *see* **Milovanović, Igor Ž.; et al., 90j:26013**
Toader, Gh. On the convexity of order two of functions. **90c:26038**
— Some aspects of convexity of functions and of sequences. **90c:26039**
Yu, Fu De A theorem on convex functions. (Chinese. English summary) **90f:26010**

Items with secondary classifications in 26A51

Bourgin, Richard D. (*with* Renz, Peter L.) Shortest paths in simply connected regions in $\mathbf{R}^2$. **90k:52021**
Buhăescu, T. T. On an order relation between fuzzy numbers and fuzzy functions convexity. **90c:03046**
(Delbosco, D.) *see* **Pečarić, Josip E., 90k:46026**
Gurzău, Mircia Octavian A generalization of the convexity. II. **90k:46016**
Gurzău, O. M. The convex I-functions. (Romanian summary) **90g:26013**
Janić, Radovan R. *see* **Pečarić, Josip E., 90k:46026**
Kominek, Z. (*with* Kuczma, Marek) Theorems of Bernstein-Doetsch, Piccard and Mehdi and semilinear topology. **90i:46017**
Kuczma, Marek *see* **Kominek, Z., 90i:46017**
Parnami, J. C. (*with* Vasudeva, H. L.) Homogeneity sets for mid-convex functions. **90e:26027**
Pečarić, Josip E. (*with* Janić, Radovan R.) Some remarks on the paper: "Sur une inégalité de la norme" of D. Delbosco [Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 678-715(1980), 206–208; MR 82i:46021]. (Serbo-Croatian summary) **90k:46026**
Ralph, W. J. Inequalities and semigroups. **90b:26017**
Raşa, I. A note on Jessen's inequality. **90f:26026**
Renz, Peter L. *see* **Bourgin, Richard D., 90k:52021**
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— Discrete convexity cones. **90c:40005**
Vasudeva, H. L. *see* **Parnami, J. C., 90e:26027**

26A99 None of the above, but in this section

Dogoński, Antoni (*with* Natkaniec, Tomasz) Simple examples of lattices generated by some families of functions. (Polish. English summary) **90d:26021**
Dubuc, Serge (*with* Elqortobi, Abdelkader) Valeurs extrêmes de fonctions fractales. [Extreme values of fractal functions] **90c:26040**
Elqortobi, Abdelkader *see* **Dubuc, Serge, 90c:26040**
Khudaĭ-Verenov, M. G. The structure of countable sets. (Russian) **90d:26022**
Marcus, Solomon Symmetry in the simplest case: the real line. **90e:26021**
Natkaniec, Tomasz *see* **Dogoński, Antoni, 90d:26021**
Satimov, N. Yu. Zeros of some families of functions. (Russian) **90j:26014**
Terëkhina, E. Yu. On the change of variable in the LG*-integral and on the Cauchy LG*-integral. (Russian) (*see* **90m:00040**)

Items with secondary classifications in 26A99

Bass, Jean Limites de moyennes. [Mean value limits] **90c:42019**
Boyarsky, Abraham *see* **Góra, P.; et al., 90b:58147**
Chen, Qing Yi Integrals of oscillatory functions with a parameter. (Chinese. English summary) **90d:42002**
Dickmeis, W. (*with* Mevissen, H.; Nessel, R. J.; van Wickeren, E.) Sequential convergence and approximation in the space of Riemann integrable functions. **90f:41017**
Góra, P. (*with* Boyarsky, Abraham; Proppe, H.) Constructive approximations to densities invariant under nonexpanding transformations. **90b:58147**
Ma, Wen Xiu On periodic functions without a least positive period. (Chinese) **90c:26001**
Mevissen, H. (*with* Nessel, R. J.; van Wickeren, E.) A quantitative Bohman-Korovkin theorem and its sharpness for Riemann integrable functions. (German and Russian summaries) **90f:41016**
— *see also* **Dickmeis, W.; et al., 90f:41017**
Nessel, R. J. *see* **Mevissen, H.; et al., 90f:41016** *and* **Dickmeis, W.; et al., 90f:41017**
Petruska, G. On a functional equation with retarded mean. **90f:39011**
Proppe, H. *see* **Góra, P.; et al., 90b:58147**
van Wickeren, E. *see* **Mevissen, H.; et al., 90f:41016** *and* **Dickmeis, W.; et al., 90f:41017**

26Bxx Functions of several variables

Items with secondary classifications in 26Bxx

Flanders, Harley ★ Differential forms with applications to the physical sciences. **90k:53001**

26B05 Continuity and differentiation questions

Berchiyan, O. Ya. Differentiation of multiple integrals by bases that are generated by cones. (Russian) (*see* **90i:00006**)
Carballido, José Fco. (*with* de la Villa, Agustín) Homothetic sets: a covering problem in R. (*see* **90g:28001**)
Carrese, Rosalba On the algebra generated by derivatives of interval functions. **90e:26022**
— An extension theorem of Baire 1 functions of several variables. **90j:26015**
Cater, F. S. Changing the order of partial differentiation. **90e:26023**
Dem'yanov, V. F. Codifferentiable functions. **90d:26023**
Emel'yanov, V. F. (*with* Rubnich, B. A.) A criterion for differentiability. (Russian) **90b:26012**

Hiriart-Urruty, Jean-Baptiste (*with* Seeger, Alberto) The second-order subdifferential and the Dupin indicatrices of a nondifferentiable convex function. **90c:26041**
Isakov, N. M. The C^{γ}-property and approximately differentiable functions. **90c:26042**
— A set of discontinuity points of a function that is essentially continuous. (Russian) **90h:26013**
Jinadasa, K. G. *see* **Tracy, D. S., 90m:26019**
Kõrner, T. W. A dense arcwise connected set of critical points—molehills out of mountains. **90f:26011**
Mureşan, Tr. n-dimensional mean-value theorems. (Romanian. French summary) **90a:26019**
Nekvinda, Aleš (*with* Zajíček, Luděk) A simple proof of the Rademacher theorem. (Russian and Czech summaries) **90c:26043**
Pawlak, Helena On continuity and monotonicity of Darboux functions. (Russian and Czech summaries) **90g:26007**
Romanov, A. S. A capacity analogue for the Lebesgue theorem on the differentiation of an integral. **90h:26014**
Rubnich, B. A. *see* **Emel′yanov, V. F., 90b:26012**
Seeger, Alberto *see* **Hiriart-Urruty, Jean-Baptiste, 90c:26041**
Ślęzak, Włodzimierz A. On preponderantly equicontinuous collections of transformations. (Polish summary) **90c:26044**
Tracy, D. S. (*with* Jinadasa, K. G.) Patterned matrix derivatives. (French summary) **90m:26019**
de la Villa, Agustín *see* **Carballido, José Fco.**, (**90g:28001**)
Yang, Qi Yuan (*with* Zhou, Wei Chu) A discussion of sufficient conditions for conditional extrema of multivariate functions. (Chinese. English summary) **90k:26015**
Zajíček, Luděk *see* **Nekvinda, Aleš, 90c:26043**
Zhou, Wei Chu *see* **Yang, Qi Yuan, 90k:26015**

Items with secondary classifications in 26B05

Canavati, José A. On the extension of smooth functions by means of orthogonal polynomials. **90c:26017**
Correa, Rafael (*with* Jofré, A.) Tangentially continuous directional derivatives in nonsmooth analysis. **90h:49009**
Grande, Zbigniew (*with* Strońska, Ewa) Sur la mesurabilité de fonctions quasi-continues. (Polish summary) [On the measurability of quasicontinuous functions] **90k:28004**
— Sur les fonctions approximativement quasi-continues. [On approximately quasicontinuous functions] **90e:26006**
Grosse-Erdmann, Karl-Goswin An extension of the Steinhaus-Weil theorem. **90k:28014**
Handschug, Michael On the class of equivalent quasi-differentials. **90k:90135**
Jofré, A. *see* **Correa, Rafael, 90h:49009**
Kawasaki, Hidefumi The upper and lower second order directional derivatives of a sup-type function. **90a:90171**
Osborne, M. Scott (*with* Warner, Garth) On the Dini calculus. II. **90h:42018**
Parthasarathy, T. (*with* Ravindran, G.) Completely mixed games and global univalence in convex regions. **90f:90180**
Rapcsák, Tamás ★ On pseudolinear functions. **90k:90124**
Ravindran, G. *see* **Parthasarathy, T., 90f:90180**
Strońska, Ewa *see* **Grande, Zbigniew, 90k:28004**
Uryas′ev, S. P. Differentiability of an integral over a set defined by an inclusion. **90i:26015**
Vojtášek, Stanislav Some applications of the mean value theorem. **90f:65042**
Warner, Garth *see* **Osborne, M. Scott, 90h:42018**
Wulbert, Daniel Liapanov's and related theorems. **90m:46074**
Xiao, Yi Min A decomposition theorem for infinitely differentiable functions of two variables. (Chinese) **90e:26042**
Ziemer, William P. Uniform differentiability of Sobolev functions. **90f:46054**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Pshenichnyĭ, B. N. Implicit function theorems for multi-valued mappings. **90k:26016**

Items with secondary classifications in 26B10

Kurokawa, Takahide Integral representation of smooth functions in weight classes and its application. **90a:46074**
Meisters, Gary Hosler (*with* Olech, Czesław) Solution of the global asymptotic stability Jacobian conjecture for the polynomial case. **90b:58135**
Olech, Czesław *see* **Meisters, Gary Hosler, 90b:58135**
Torriani, Hugo H. Constructive implicit function theorems. **90h:05017**

26B12 Calculus of vector functions

Dorogovtsev, A. Ya. Elements of the analysis of vector functions. (Russian) **90m:26020**
Hiriart-Urruty, Jean-Baptiste (*with* Seeger, Alberto) Calculus rules on a new set-valued second order derivative for convex functions. **90e:26024**
Seeger, Alberto *see* **Hiriart-Urruty, Jean-Baptiste, 90e:26024**

Items with secondary classifications in 26B12

Malheiros, Euclides Braga *see* **Sanches, Adhemar, 90i:58012**
McClure, J. P. (*with* Wong, Roderick) Asymptotic expansion of a double integral with a curve of stationary points. **90b:41052**
Sanches, Adhemar (*with* Malheiros, Euclides Braga) Determining the absolute maximum point of a quadratic polynomial function of three variables in the region $A \subset \mathbf{R}^n$ when the function has a saddle point. (Portuguese. English summary) **90i:58012**
Wong, Roderick *see* **McClure, J. P., 90b:41052**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Dzierzbicka-Mazaraki, Krystyna Les intégrales paramétriques multiples dépendant des dérivées du second ordre. [Multiple parametric integrals that depend on second-order derivatives] **90d:26024**
M'khalfi, A. On a generalized multiple integral and the divergence theorem. **90e:26025**

Items with secondary classifications in 26B15

Bockman, S. F. Generalizing the formula for areas of polygons to moments. **90c:51026**
Cianchi, Andrea On relative isoperimetric inequalities in the plane. (Italian summary) **90e:28007**
Iri, Masao *see* **Kishimoto, Kazuo^{2}, 90j:00034**
Kishimoto, Kazuo^{2} (*with* Iri, Masao) A practical approach to the definition and measurement of "length". **90j:00034**
Leonard, I. E. A sequence of multiple integrals. **90e:05006**
Smith, David J. (*with* Vamanamurthy, Mavina K.) How small is a unit ball? **90e:51029**
Vamanamurthy, Mavina K. *see* **Smith, David J., 90e:51029**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

Brockett, T. E. (*with* Kim, Myung-Hwan^{2}; Park, Jong-Hwan) Limiting forms for surface singularity distributions when the field point is on the surface. **90a:26020**
Jurkat, Wolfgang B. (*with* Nonnenmacher, D. J. F.) The general form of Green's theorem. **90k:26017**
Kim, Myung-Hwan^{2} *see* **Brockett, T. E.; et al., 90a:26020**
Nonnenmacher, D. J. F. *see* **Jurkat, Wolfgang B., 90k:26017**
Ortel, Marvin (*with* Schneider, Walter J.) A parametric Gauss-Green theorem in several variables. **90f:26012**
Park, Jong-Hwan *see* **Brockett, T. E.; et al., 90a:26020**
Pfeffer, W. F. The Gauss-Green theorem. **90e:26026**
Schneider, Walter J. *see* **Ortel, Marvin, 90f:26012**
Uryas′ev, S. P. Differentiability of an integral over a set defined by an inclusion. **90i:26015**

Items with secondary classifications in 26B20

Herold, H. Eine Anwendung des Gaußschen Integralsatzes. [An application of the Gaussian integral theorem] **90a:30005**
M'khalfi, A. On a generalized multiple integral and the divergence theorem. **90e:26025**
Pfeffer, W. F. On the generalized Riemann integral defined by means of special partitions. **90d:26014**
Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) **90b:40007**

26B25 Convexity, generalizations

Aniţa, Sebastian^{2} A characterization of the mean value equality in convex analysis. **90i:26016**
Castagnoli, Erio (*with* Mazzoleni, Piera) Scalar and vector generalized convexity. **90m:26021**
— (*with* Mazzoleni, Piera) About derivatives of some generalized concave functions. **90k:26018**
Cavazzuti, E. (*with* Pacchiarotti, N.) Compactness and boundedness for a class of concave-convex functions. **90m:26022**
Cojocaru, Ion On φm (φ-mean)-d-convex functions. **90c:26045**
Ferrero, O. Convexity conditions for a function defined on a polyhedron, and applications. (Italian. English summary) **90f:26013**
Frommer, Andreas Continuity and differentiability of order-convex functions on $\mathbf{R}^n$. (German and Russian summaries) **90c:26046**
Guseĭnov, F. V. Continuity of quasiconvex functions and a theorem on quasiconvexity. (Russian. English and Azerbaijani summaries) **90c:26047**
Kang, Bo (*with* Liu, Guang Zhong) Some properties of $(r-\varphi)$-convex functions. (Chinese. English summary) **90j:26016**
Li, Bao Xiu The definition and properties of arcwise quasiconvex functions. (Chinese. English summary) **90j:26017**
Liu, Guang Zhong Criteria for a class of generalized convex functions. (Chinese. English summary) **90j:26018**
— *see also* **Kang, Bo, 90j:26016**
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Parnami, J. C. (*with* Vasudeva, H. L.) Homogeneity sets for mid-convex functions. **90e:26027**
de Sá, Eduardo Marques A convexity lemma on the interlacing inequalities for invariant factors. **90d:26025**
Schõpf, Peter Moments of convex and monotone functions. **90i:26017**
Shimoda, Norio On the variation inequality and its applications. (Japanese) **90h:26015**
Vasudeva, H. L. *see* **Parnami, J. C., 90e:26027**

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Auslender, A. A. (*with* Crouzeix, J.-P.) Well-behaved asymptotical convex functions. **90j:26020**
Beer, Gerald (*with* Lucchetti, Roberto) Minima of quasi-convex functions. **90i:49010**
— Infima of convex functions. **90a:90143**
Butz, Arthur R. Rank order smoothers with two-dimensional data model. **90a:94007**
Castagnoli, Erio (*with* Mazzoleni, Piera) Towards a unified type of concavity. **90f:90105**
Chaljub-Simon, Alice (*with* Volkmann, Peter) Remark on Hahn-Banach theorems. (Spanish) **90b:46020**
Crouzeix, J.-P. *see* **Auslender, A. A., 90j:26020**
Dahmen, Wolfgang (*with* Micchelli, Charles A.) Convexity of multivariate Bernstein polynomials and box spline surfaces. **90g:41005**
Fukushima, Masao *see* **Tanaka, Yoshihiro; et al., 90m:90261**
Gardiner, Stephen J. Convexity and subharmonicity. **90i:31013**
Hiriart-Urruty, Jean-Baptiste (*with* Seeger, Alberto) Calculus rules on a new set-valued second order derivative for convex functions. **90e:26024**
— (*with* Seeger, Alberto) The second-order subdifferential and the Dupin indicatrices of a nondifferentiable convex function. **90c:26041**

Horsley, Anthony (*with* Wrobel, Andrzej J.) Subdifferentials of convex symmetric functions: an application of the inequality of Hardy, Littlewood, and Pólya. **90b:46090**
Hu, Te Chiang (*with* Klee, Victor; Larman, David) Optimization of globally convex functions. **90m:90223**
Ibaraki, Toshihide *see* **Tanaka, Yoshihiro; et al., 90m:90261**
Klee, Victor *see* **Hu, Te Chiang; et al., 90m:90223**
Komuro, Naoto On basic properties of convex functions and convex integrands. **90f:49008**
Larman, David *see* **Hu, Te Chiang; et al., 90m:90223**
Lucchetti, Roberto *see* **Beer, Gerald, 90i:49010**
Martínez-Legaz, J.-E. On lower subdifferentiable functions. **90m:90224**
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Micchelli, Charles A. *see* **Dahmen, Wolfgang, 90g:41005**
Peng, Xiu Ping An extension of an inequality for functions of several variables. (Chinese) **90c:26066**
Penot, J.-P. (*with* Volle, M.) Another duality scheme for quasiconvex problems. **90j:90124**
Seeger, Alberto *see* **Hiriart-Urruty, Jean-Baptiste, 90c:26041** *and* **90e:26024**
Tanaka, Yoshihiro (*with* Fukushima, Masao; Ibaraki, Toshihide) On generalized pseudoconvex functions. **90m:90261**
Volkmann, Peter *see* **Chaljub-Simon, Alice, 90b:46020**
Volle, M. *see* **Penot, J.-P., 90j:90124**
Wrobel, Andrzej J. *see* **Horsley, Anthony, 90b:46090**

26B30 Absolutely continuous functions, functions of bounded variation

Ambrosio, L. (*with* Dal Maso, Gianni) A general chain rule for distributional derivatives. **90j:26019**
Dal Maso, Gianni *see* **Ambrosio, L., 90j:26019**
Dubuc, B. (*with* Tricot, Claude) Variation d'une fonction et dimension de son graphe. (English summary) [Variation of a function, and graph dimension] **90a:26021**
Reitgruber, Wolfgang Funktionen von beschränkter gewichteter Schwankung. [Functions of bounded weighted variation] **90i:26018**
Talalyan, A. A. (*with* Talalyan, F. A.) Representation of absolutely continuous functions in several variables. (Russian. English and Armenian summaries) **90k:26019**
Talalyan, F. A. *see* **Talalyan, A. A., 90k:26019**
Tricot, Claude *see* **Dubuc, B., 90a:26021**
Walczak, Stanisław Absolutely continuous functions of several variables and their application to differential equations. (Russian summary) **90d:26026**

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Blümlinger, M. (*with* Tichy, R. F.) Topological algebras of functions of bounded variation. I. **90k:46116**
— Topological algebras of functions of bounded variation. II. **90k:46117**
David, Guy René Morceaux de graphes lipschitziens et intégrales singulières sur une surface. [Pieces of Lipschitz graphs and singular integrals on a surface] **90h:42026**
Skoug, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. **90d:28018**
Tichy, R. F. *see* **Blümlinger, M., 90k:46116**

26B35 Special properties of functions of several variables, Hölder conditions, etc.

Auslender, A. A. (*with* Crouzeix, J.-P.) Well-behaved asymptotical convex functions. **90j:26020**
Crouzeix, J.-P. *see* **Auslender, A. A., 90j:26020**
Dubuc, B. On Takagi fractal surfaces. **90k:26020**
Gulevich, S. A. Multiplicity of a mapping from a plane into a plane. (Russian) (*see* **90h:00005**)
Jones, Peter Wilcox Lipschitz and bi-Lipschitz functions. **90h:26016**
Pawlak, Ryszard Jerzy Variation of Darboux functions. **90k:26021**
Pu, H. H. *see* **Pu, H. W., 90k:26022**
Pu, H. W. (*with* Pu, H. H.) Uniform limits of Darboux functions on the Euclidean plane. **90k:26022**

Items with secondary classifications in 26B35

Alvino, A. (*with* Trombetti, G.; Lions, P.-L.) On optimization problems with prescribed rearrangements. **90c:90236**
Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**
Doboš, Jozef On extremal values of continuous monotone functions. **90m:54019**
Dong, Qun Ming On second-order sufficient conditions for $C^{1,1}$ function minimization and a further discussion on the Hiriart-Urruty problem. (Chinese. English summary) **90d:90072**
Horihata, Kazuhiro Pointwise property of L^p-functions with Nikol′skiĭ condition. (Italian summary) **90m:46057**
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Lions, P.-L. *see* **Alvino, A.; et al., 90c:90236**
Ortel, Marvin (*with* Schneider, Walter J.) A parametric Gauss-Green theorem in several variables. **90f:26012**
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Schneider, Walter J. *see* **Ortel, Marvin, 90f:26012**
Temlyakov, V. N. On estimates of ε-entropy and widths of classes of functions with a bounded mixed derivative or difference. **90e:41012**
Trombetti, G. *see* **Alvino, A.; et al., 90c:90236**
Vodop′yanov, S. K. ★ Формула Тейлора и функциональные пространства. (Russian) [Taylor's formula and function spaces] **90j:46038**
— Intrinsic geometries and boundary values of differentiable functions. I. **90j:46039**

26B40 Representation and superposition of functions

Borzi, C. *see* **Frisch, H. L.; et al., 90f:26014**
Caligaris, Ottavio Measurable representation of biconjugate integrands. **90i:26019**
Frisch, H. L. (*with* Borzi, C.; Ord, G.; Percus, J. K.; Williams, G. O.) Approximate representation of functions of several variables in terms of functions of one variable. **90f:26014**
Gokhman, A. O. Smooth symmetric functions. **90h:26017**
Ord, G. *see* **Frisch, H. L.; et al., 90f:26014**
Percus, J. K. *see* **Frisch, H. L.; et al., 90f:26014**
Williams, G. O. *see* **Frisch, H. L.; et al., 90f:26014**

Items with secondary classifications in 26B40

Madych, W. R. (*with* Solmon, D. C.) A range theorem for the Radon transform. **90i:4400**
Páles, Z. (*with* Volkmann, Peter) Characterization of a class of means. **90k:39008**
Sokolova, T. V. Structure of mappings with bounded distortion that are close to conformal. **90a:30067**
Solmon, D. C. *see* **Madych, W. R., 90i:44003**
Volkmann, Peter *see* **Páles, Z., 90k:39008**

26B99 None of the above, but in this section

El-Shazly, M. S. *see* **Okb El-Bab, A. S., 90c:26049**
Li, Yu² Symmetric groups of M-functions. (Chinese) **90c:26048**
Mirtchev, Ivan A. (*with* Shtrakov, Sl.) Strongly dominating sets of variables. (Hungarian summary) **90a:26022**
— Dominating and c-separable sets of variables for the functions. (Bulgarian. English summary) **90e:26028**
Okb El-Bab, A. S. (*with* El-Shazly, M. S.) Integral representation of negative-definite functions of infinitely many variables. **90c:26049**
Páles, Z. On homogeneous quasideviation means. **90c:26050**
Shtrakov, Sl. *see* **Mirtchev, Ivan A., 90a:26022**

Items with secondary classifications in 26B99

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Berenstein, Carlos A. (*with* Gay, Roger) Le problème de Pompeiu local. (English summary) [The local Pompeiu problem] **90c:31005**
Blaga, Aurel P. (*with* Muntean, Ioan) Classifications of some sets of real functions on a vector space. **90d:46071**
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Gay, Roger *see* **Berenstein, Carlos A., 90c:31005**
Jormakka, Jorma The existence of quasiregular mappings from $\mathbf{R}^3$ to closed orientable 3-manifolds. **90b:57005**
Muntean, Ioan *see* **Blaga, Aurel P., 90d:46071**

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, inequalities, etc.

Aliev, M. S. Zeros of polynomials in linearly independent systems of continuous functions. (Russian) **90f:26015**
Audoly, S. (*with* D'Angiò, L.) Some properties of a class of mappings of $\mathbf{R}^n$ into $\mathbf{R}^m$ and their implications for particular systems of algebraic equations. (Italian. English summary) **90b:26013**
Bailey, D. F. (*with* Fix, George J.) A generalization of the mean mean value theorem. **90c:26051**
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(Boas, Ralph P.) *see* **Kreĭn, M. G.; et al., 90f:26016**
D'Angiò, L. *see* **Audoly, S., 90b:26013**
Drmota, M. Abschätzungen ganzzahliger Polynome auf dem Intervall [0, 1]. [Estimates of integral polynomials on the interval [0, 1]] **90h:26018**
Ermakov, A. I. An estimate for the derivative of algebraic polynomials and entire functions of a finite degree in S. N. Bernstein's class. (Russian) (*see* **90h:00005**)
Fix, George J. *see* **Bailey, D. F., 90c:26051**
Ghosh, Sankar On characterisation of polynomials of degree two through some of their properties. **90c:26052**
Ivanov, Kamen G. (*with* Totik, V.) Fast decreasing polynomials. **90k:26023**
Kovačević, Milan A. *see* **Milovanović, Igor Ž., (90i:65008)**
Kreĭn, M. G. (*with* Levin, B. Ya.; Nudel′man, A. A.) On a special representation of polynomials that are positive on a system of closed intervals. **90f:26016**
Levin, B. Ya. *see* **Kreĭn, M. G.; et al., 90f:26016**
Meshchaninov, D. G. Some properties of a superstructure of a class of polynomials in P_k. **90c:26053**
Milovanović, Gradimir V. (*with* Milovanović, Igor Ž.) An extremal problem for polynomials with nonnegative coefficients. III. **90h:26019**
Milovanović, Igor Ž. (*with* Kovačević, Milan A.) An extremal problem for real algebraic polynomials. (*see* **90i:65008**)
— *see also* **Milovanović, Gradimir V., 90h:26019**
Nudel′man, A. A. *see* **Kreĭn, M. G.; et al., 90f:26016**
Reddy, A. R. Note on a result of Erdős. **90m:26023**
Soh, C. B. (*with* Berger, C. S.) Damping ratio of polynomials with perturbed coefficients. **90c:26054**
Totik, V. *see* **Ivanov, Kamen G., 90k:26023**

Items with secondary classifications in 26C05

Barbeau, E. J. ★ Polynomials. **90f:12001**

Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**

Bui Doan, Khanh (*with* Sunyach, Christian) Polynômes à phase minimale en deux variables. (English summary) [Minimum-phase polynomials in two variables] **90d:32013**

Bukhnikashvili, I. A. Polynomials that deviate least from zero and that have a zero derivative at a fixed point. (Russian) **90b:41011**

Bustoz, Joaquin (*with* Ismail, E. H. Mourad) A positive trigonometric sum. **90e:33002**

Ismail, E. H. Mourad *see* **Bustoz, Joaquin, 90e:33002**

Johnson, P. D., Jr. *see* **Boghossian, Artin B., 90e:26040**

Katkova, O. M. A method for constructing Pólya frequency sequences. (Russian) **90h:05013**

Rahman, Q. I. (*with* Schmeisser, G.) Markoff type inequalities for curved majorants. **90k:41022**

Schmeisser, G. *see* **Rahman, Q. I., 90k:41022**

Sunyach, Christian *see* **Bui Doan, Khanh, 90d:32013**

Van Assche, Walter Orthogonal polynomials: bounded versus unbounded spectrum. **90g:41047**

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

Lepschy, A. (*with* Mian, G. A.; Viaro, U.) A geometrical interpretation of the Routh test. **90e:26029**

Mian, G. A. *see* **Lepschy, A.; et al., 90e:26029**

Nguyễn Thị Thiêu Hoa The oscillation property of the operator $D(D^2+1^2)\cdots(D^2+n^2)$ and its applications. **90g:26008**

Viaro, U. *see* **Lepschy, A.; et al., 90e:26029**

Items with secondary classifications in 26C10

Barbeau, E. J. ★ Polynomials. **90f:12001**

Bidkham, M. (*with* Dewan, K. K.) Bounds for the zeros of polynomials. **90i:30008**

Craven, Thomas C. (*with* Csordas, G.) Jensen polynomials and the Turán and Laguerre inequalities. **90a:26035**

Csordas, G. *see* **Craven, Thomas C., 90a:26035**

Dewan, K. K. *see* **Bidkham, M., 90i:30008**

Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. **90m:30007**

Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] **90k:12002**

26C15 Rational functions [see also 14G30]

Items with secondary classifications in 26C15

Bose, N. K. (*with* Delansky, J. F.) Boundary implications for interval positive rational functions. **90e:93078**

Delansky, J. F. *see* **Bose, N. K., 90e:93078**

Levrie, Paul (*with* Piessens, Robert) Convergence acceleration for Miller's algorithm. **90m:65012**

— Improving a method for computing nondominant solutions of certain second-order recurrence relations of Poincaré-type. **90m:65013**

Piessens, Robert *see* **Levrie, Paul, 90m:65012**

26C99 None of the above, but in this section

Manturov, O. V. (*with* Martynyuk, A. N.) An algorithm in the theory of a multiplicative integral. (Russian) **90j:26021**

Martynyuk, A. N. *see* **Manturov, O. V., 90j:26021**

Items with secondary classifications in 26C99

Djebbar, Bachir *see* **Nguyen Thanh Van, 90f:31001**

Kaplan, Wilfred On circulants. **90i:15008**

Nguyen Thanh Van (*with* Djebbar, Bachir) Propriétés asymptotiques d'une suite orthonormale de polynômes harmoniques. (English summary) [Asymptotic properties of an orthonormal sequence of harmonic polynomials] **90f:31001**

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39C05.}

Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.) ★ Diferencijalne i integralne nejednakosti. (Serbo-Croatian) [Differential and integral inequalities] **90c:26055**

Pečarić, Josip E. *see* **Mitrinović, Dragoslav S., 90c:26055**

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Lakshmikantham, V. (*with* Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. **90h:34073**

Leela, S. *see* **Lakshmikantham, V.; et al., 90h:34073**

Martynyuk, A. A. *see* **Lakshmikantham, V.; et al., 90h:34073**

26D05 Inequalities for trigonometric functions and polynomials

Badalyan, G. V. (*with* Edigaryan, V. M.) A method for obtaining an analogue of the V. A. Markov inequality for polynomials in the metric $L^p(0,1)$, $1<p<\infty$. (Russian. English and Armenian summaries) **90e:26030**

Edigaryan, V. M. *see* **Badalyan, G. V., 90e:26030**

von Golitschek, M. (*with* Lorentz, G. G.) Bernstein inequalities in L_p, $0\le p\le+\infty$. **90h:26020**

Lorentz, G. G. *see* **von Golitschek, M., 90h:26020**

Nadzhmiddinov, D. (*with* Subbotin, Yu. N.) Markov inequalities for polynomials on triangles. **90h:26021**

Subbotin, Yu. N. *see* **Nadzhmiddinov, D., 90h:26021**

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Erdélyi, T. Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0,\infty)$. **90h:41018**

Janous, Walter *see* **Mitrinović, Dragoslav S.; et al., 90c:51027**

Logan, B. F. An interference problem for exponentials. **90a:42003**

Milovanović, Gradimir V. Various extremal problems of Markov's type for algebraic polynomials. (Serbo-Croatian summary) **90c:41010**

Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.; Janous, Walter) Some trigonometric inequalities. (Serbo-Croatian summary) **90c:51027**

Pečarić, Josip E. *see* **Mitrinović, Dragoslav S.; et al., 90c:51027**

Rahman, Q. I. (*with* Schmeisser, G.) Markoff type inequalities for curved majorants. **90k:41022**

Schmeisser, G. *see* **Rahman, Q. I., 90k:41022**

Zhou, Song Ping A pointwise inequality for derivatives of polynomials with positive coefficients. (Chinese. English summary) **90i:41026**

26D10 Inequalities involving derivatives and differential and integral operators

Aly, E. A. *see* **Zaghrout, Afaf A. S.; et al., 90f:26023**

Aly, I. A. *see* **Zaghrout, Afaf A. S., 90f:26022a**

Aly, Z. M. M. *see* **Zaghrout, Afaf A. S., 90f:26022b** *and* **90f:26023**

Baernstein, Albert, II Some topics in symmetrization. **90h:26022**

Batuev, È. N. (*with* Stepanov, V. D.) Weighted inequalities of Hardy type. **90f:26017**

Beriša, Muharem Č. *see* **Zejnullahu, R., 90a:26027**

Boyadzhiev, Khristo N. An inequality for bounds of successive derivatives. **90c:26056**

Chen, Weiyu (*with* Ditzian, Z.) Mixed and directional derivatives. **90h:26023**

Clausing, Achim Experimenting with operator inequalities using APL. **90i:26020**

Ditzian, Z. Multivariate Landau-Kolmogorov-type inequality. **90a:26023**

— *see also* **Chen, Weiyu, 90h:26023**

Dragomir, S. S. (*with* Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. I. **90k:26024**

— (*with* Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. III. **90k:26026**

— (*with* Ionescu, Nicoleta M.) The Wendroff type lemmas and applications. II. (Romanian summary) **90k:26025**

— On some Gronwall type lemmas. (Romanian summary) **90k:26027**

Florkiewicz, B. On some integral inequalities of block type. **90c:26057**

Gillman, David W. (*with* Kaper, Hans G.; Kwong, Man Kam) L^2-norm inequalities for the differentiation operator on compact intervals. **90a:26024**

Hsieh, Liang Ming On some generalized Opial inequalities. (Chinese summary) **90f:26018**

Ionescu, Nicoleta M. *see* **Dragomir, S. S., 90k:26024; 90k:26025** *and* **90k:26026**

Kaper, Hans G. *see* **Gillman, David W.; et al., 90a:26024**

Kong, Qing Kai (*with* Zhang, Bing Gen) Some generalization of Gronwall-Bihari integral inequalities and their applications. **90k:26028**

Kurokawa, Takahide Weighted norm inequalities for Riesz potentials. **90j:26022**

Kwong, Man Kam *see* **Gillman, David W.; et al., 90a:26024**

Lin, Chin Ts'ai A note on an integrodifferential inequality. (Chinese summary) **90f:26019**

Mao, Xue Rong Lebesgue-Stieltjes integral inequalities of the Greene type in N-independent variables. **90m:26024**

Mitrea, Alexandru-Ioan The unbounded divergence of numerical differentiation for equidistant nodes. **90e:26031**

Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.) On a method due to R. Bellman. **90c:26058**

— (*with* Pečarić, Josip E.) A general integral inequality for the derivative of an equimeasurable rearrangement. **90g:26009**

Mohapatra, Ram Narayan (*with* Vajravelu, K.) Integral inequalities resembling Copson's inequality. **90k:26029**

Pachpatte, B. G. On Wendroff like integral inequalities. **90a:26025**

— On certain two-dimensional integral inequalities. **90m:26025**

Pečarić, Josip E. *see* **Mitrinović, Dragoslav S., 90c:26058** *and* **90g:26009**

Pilipenko, I. A. Estimates for differential operators on classes of almost periodic functions. (Russian) **90d:26027**

Pirapakaran, Ratnam Impulsive integral inequalities of Gronwall-Bihari type. **90k:26030**

Sato, Shuichi Weighted inequalities on product domains. **90i:26021**

Seiffert, H.-J. Eine Integralungleichung für streng monotone Funktionen mit logarithmisch konvexer Umkehrfunktion. [An integral inequality for strictly monotone functions with a logarithmically convex inverse function] **90c:26059**

Sinnamon, Gordon A note on the Stieltjes transformation. **90a:26026**

— A weighted gradient inequality. **90f:26020**

Stepanov, V. D. A weighted inequality of Hardy type for higher-order derivatives. (Russian) **90h:26024**

— *see also* **Batuev, È. N., 90f:26017**

Talenti, Giorgio Some inequalities of Sobolev type on two-dimensional spheres. **90k:26031**

Toader, Gh. Jessen's inequality for sequences. (Romanian summary) **90f:26021**

Vajravelu, K. *see* **Mohapatra, Ram Narayan, 90k:26029**

Wannebo, Andreas Hardy inequalities. **90h:26025**

Zaghrout, Afaf A. S. (*with* Aly, I. A.) On integral inequalities of Gronwall-Bellman-Reid type. I. **90f:26022a**

— (*with* Aly, Z. M. M.) On integral inequalities of Gronwall-Bellman-Reid type. II. **90f:26022b**

— (*with* Aly, Z. M. M.; Aly, E. A.) On integral inequalities of Gronwall-Bellman-Reid type. I. **90f:26023**

Zejnullahu, R. (*with* Beriša, Muharem Č.) On the modulus of continuity and smoothness in L_p. (Russian. Serbo-Croatian summary) **90a:26027**

Zhang, Bing Gen *see* **Kong, Qing Kai, 90k:26028**

Zvyagintsev, A. I. Estimates for an intermediate derivative of a function. (Russian) **90c:26060**

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Bennewitz, Christer The HELP inequality in the regular case. **90i:34016**
Birge, J. R. (*with* Teboulle, Marc) Upper bounds on the expected value of a convex function using gradient and conjugate function information. **90m:90205**
Carton-Lebrun, C. (*with* Heinig, H. P.) Weighted norm inequalities involving gradients. **90g:42035**
Czerni, Marek Stability of normal regions for linear homogeneous functional equations. **90b:39018**
Erdélyi, T. Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0, \infty)$. **90h:41018**
Gariepy, Ronald F. A Caccioppoli inequality and partial regularity in the calculus of variations. **90g:49019**
Heinig, H. P. *see* **Carton-Lebrun, C., 90g:42035**
Iwamoto, S. (*with* Tomkins, R. J.; Wang, Chung-Lie) Inequalities and mathematical programming. III. **90k:90178**
Joshi, S. R. (*with* Shendge, G. R.) Integral inequalities in Banach lattices. **90j:34018**
Lakshmikantham, V. Stability results for integrodifferential equations. **90j:45028**
Lepin, A. Ya. A priori boundedness of derivatives for a system of differential inequalities. **90g:34008**
Lukashenko, T. P. (*with* Ryazanova, M. P.) Inequalities of weak type for the Hilbert operator. (Russian) (*see* **90h:00003**)
Mao, Xue Rong Lebesgue-Stieltjes integral inequalities and stochastic stabilities. **90j:60064**
Martín-Reyes, F. J. (*with* Sawyer, E.) Weighted inequalities for Riemann-Liouville fractional integrals of order one and greater. **90a:26012**
Matkowski, Janusz The converse of the Minkowski's inequality theorem and its generalization. **90m:39025**
Meshkov, V. Z. A weighted inequality of Hardy type for elliptic operators and its applications. **90a:35076**
Mokin, Yu. I. Estimates for the derivatives of solutions of integral equations of potential theory. **90d:31004**
Nadzhmiddinov, D. (*with* Subbotin, Yu. N.) Markov inequalities for polynomials on triangles. **90h:26021**
Pan, Wen Jie Two weighted norm inequalities for maximal functions involving families of convex sets or quasiconvex sets. (Chinese. English summary) **90k:42039**
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Sadyrbaev, F. Zh. Tonelli sets in a one-dimensional problem of the calculus of variations. (Russian) **90b:49028**
Saloff-Coste, Laurent Inégalités de Sobolev produit sur les groupes de Lie nilpotents. [Product Sobolev inequalities on nilpotent Lie groups] **90m:22028**
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Shendge, G. R. *see* **Joshi, S. R., 90j:34018**
Smith, Wayne Stewart (*with* Stegenga, David A.) Hölder domains and Poincaré domains. **90i:30012**
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Subbotin, Yu. N. *see* **Nadzhmiddinov, D., 90h:26021**
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Tomkins, R. J. *see* **Iwamoto, S.; et al., 90k:90178**
Wang, Chung-Lie *see* **Iwamoto, S.; et al., 90k:90178**

26D15 Inequalities for sums, series and integrals

Agarwal, Ravi Prakash Linear and nonlinear discrete inequalities in n independent variables. **90h:26026**
— (*with* Thandapani, E.) On discrete inequalities in n independent variables. **90c:26061**
Agović, Elmaz M. *see* **Pečarić, Josip E., 90k:26037**
Allen, G. D. Power majorization and majorization of sequences. **90e:26032**
Allouche, Jean-Paul (*with* Mendès France, Michel; Tenenbaum, Gérald) Entropy: an inequality. **90e:26033**
Alzer, Horst A converse of Ky Fan's inequality. **90a:26028**
— A note on Hadamard's inequalities. **90k:26032**
— On weighted geometric means. **90h:26027**
— On an inequality of Ky Fan. **90a:26029**
— Die Ungleichung von Ky Fan: Ein neuer Beweis. [The inequality of Ky Fan: a new proof] **90k:26033**
— Rado-type inequalities for geometric and harmonic means. **90m:26026a**
— Errata: "Rado-type inequalities for geometric and harmonic means". **90m:26026b**
Avram, Florin (*with* Brown, Lawrence G.) A generalized Hölder inequality and a generalized Szegő theorem. **90c:26062**
— (*with* Taqqu, Murad S.) Hölder's inequality for functions of linearly dependent arguments. **90k:26034**
Baĭnov, D. D. *see* **Simeonov, P. S., 90d:26031**
Bennett, Grahame Some elementary inequalities. II. **90a:26030**
Bergh, Jöran Hardy's inequality—a complement. **90h:26028**
Borisenko, S. D. Integro-summary inequalities for functions of several independent variables. (Russian) **90k:26035**
Bourgain, J. On the behavior of the constant in the Littlewood-Paley inequality. **90g:26010**
Brown, Lawrence G. *see* **Avram, Florin, 90c:26062**
Burton, Andrew P. (*with* Smith, Peter^2) An approach to Friedrichs and Poincaré integral inequalities using convexity. (Serbo-Croatian summary) **90j:26023**
Chen, Ji *see* **Wang, Wan Lan; et al., 90g:26012**
Clark, Dean S. Generalization of an inequality of Gronwall-Reid. **90h:26029**
Crstici, Borislav (*with* Dragomir, S. S.; Neagu, Mihai) Une inégalité inverse pour l'inégalité d'Hölder. (Romanian summary) [A converse inequality for Hölder's inequality] **90d:26028**
Dai, Chao Shou Some examples of probabilistic proofs of inequalities. (Chinese. English summary) **90h:26030**
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Duca, Eugenia Pseudo-geometric inequalities. **90c:26063**
Essén, Matts Tauberian theorems, convolutions and some results of D. C. Russell. **90m:26027**
Fenyő, I. Some inequalities concerning convolutions of kernel functions. **90h:26031**
Gavrea, Ioan (*with* Gurzău, Mircia Octavian) Inequalities of the Levinson-Popoviciu typ for convex functions of higher order. (*see* **90b:00007**)
Gurka, Petr (*with* Opic, Bohumír) A note on n-dimensional Hardy's inequality. (*see* **90a:41001**)
Gurzău, Mircia Octavian *see* **Gavrea, Ioan, (90b:00007)**
Kryakin, Yu. V. Whitney constants. (Russian) **90j:26024**
Laohakosol, Vichian (*with* Leerawat, Utsanee) Inequalities related to power sums. **90c:26064**
Leerawat, Utsanee *see* **Laohakosol, Vichian, 90c:26064**
Li, Guang Xing *see* **Wang, Wan Lan; et al., 90g:26012**
Lin, Chin Ts'ai Some generalizations of Opial's inequality. (Chinese summary) **90e:2603**
— A further generalization of Opial's integral inequality. **90e:26035**
Love, E. R. Some inequalities for geometric means. **90m:26028**
— Inequalities related to Knopp's inequality. **90a:26031**
Maddox, I. J. The norm of a linear functional. **90c:26065**
Mao, Xue Rong Lebesgue-Stieltjes integral inequalities of the Wendroff type in N-independent variables. **90h:26032**
McLeod, J. B. (*with* Peletier, L. A.) Observations on Moser's inequality. **90d:26029**
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Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.) On two lemmas of N. Ozeki. **90h:26033**
— (*with* Pečarić, Josip E.) Unified treatment of some inequalities for mixed means. **90k:26036**
Neagu, Mihai *see* **Crstici, Borislav; et al., 90d:26028**
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Opic, Bohumír *see* **Gurka, Petr, (90a:41001)**
Pachpatte, B. G. On some integral inequalities and their applications to higher order differential equations. **90d:26030**
— A note on Askey and Karlin type integrability inequalities. **90e:26036**
— A note on discrete inequalities in several variables. **90i:26023**
Páles, Z. A generalization of Young's inequality. **90h:26034**
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— (*with* Agović, Elmaz M.) On the starshaped sequences of higher order. (Serbo-Croatian summary) **90k:26037**
— (*with* Mesihović, Behdžet A.) On Vietoris' generalization of Čebyšev's inequality. **90k:26038**
— On an inequality of V. Sierpiński. (Serbo-Croatian summary) **90i:26024**
— *see also* **Mitrinović, Dragoslav S., 90h:26033**; **Neuman, E., 90i:26022** *and* **Mitrinović, Dragoslav S., 90k:26036**
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Peng, Xiu Ping An extension of an inequality for functions of several variables. (Chinese) **90c:26066**
Pfluger, A. Comment on: "Some integral inequalities" [Elem. Math. **43** (1988), no. 6, 177–180; MR 90b:26014] by J. Sándor. (German) **90i:26025**
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Sándor, József Some integral inequalities. **90b:26014**
— *see also* **Pfluger, A., 90i:26025**
Simeonov, P. S. (*with* Baĭnov, D. D.) On an integral inequality for piecewise continuous functions. **90d:26031**
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Thandapani, E. Discrete inequalities in n independent variables of Gronwall-Bellman type. **90b:26015**
— *see also* **Agarwal, Ravi Prakash, 90c:26061**
Toader, Gh. On some inequalities for convex functions. **90f:26024**
Troesch, B. A. The validity of Shapiro's cyclic inequality. **90f:26025**
Wang, Chung-Lie On development of a Ky Fan inequality of the complementary A-G type. **90b:26016**
— A continuum between power means. **90d:26032**
Wang, Peng Fei *see* **Wang, Wan Lan, 90i:26026**
Wang, Wan Lan (*with* Wang, Peng Fei) Some new inequalities obtained from Beckenbach' inequality. (Chinese. English summary) **90i:26026**
— (*with* Li, Guang Xing; Chen, Ji) Inequalities involving ratios of means. (Chinese. English summary) **90g:26012**
Yang, Kuo Shêng A note on an inequality similar to Opial inequality. **90a:26032**
You, Guang-Rong On Hölder's inequalities for convexity. **90k:26039**
Yu, Jian A new proof for a geometric inequality. (Chinese) **90c:26067**
Zimmermann, Hans-Jürgen Eine Normungleichung für Integrale $\mathbf{R}^n$-wertiger Funktionen. [A norm inequality for integrals of $\mathbf{R}^n$-valued functions] (Not in MR)
Zvyagintsev, A. I. Refinement of constants in Kolmogorov inequalities for $n = 4$. (Russian) **90a:26033**

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Adamović, Dušan D. (*with* Pečarić, Josip E.) On Nanson's inequality and on some inequalities related to it. **90f:26009**
Ariño, Miguel A. (*with* Muckenhoupt, Benjamin) Maximal functions on classical Lorentz spaces and Hardy's inequality with weights for nonincreasing functions. **90k:42034**
Benedetto, J. J. (*with* Heinig, H. P.; Johnson, Raymond L.) Fourier inequalities with A_p-weights. **90k:42015**
Bustoz, Joaquin (*with* Ismail, E. H. Mourad) A positive trigonometric sum. **90e:33002**
Chen, Wen Yi Log subharmonic functions and weighted Carleman inequalities. (Chinese. English summary) **90d:31021**
Daróczy, Zoltán (*with* Páles, Z.) Convexity with given infinite weight sequences. **90c:3902**

(Delbosco, D.) *see* **Pečarić, Josip E., 90k:46026**
Heinig, H. P. *see* **Benedetto, J. J.; et al., 90k:42015**
Ismail, E. H. Mourad *see* **Bustoz, Joaquin, 90e:33002**
Janić, Radovan R. *see* **Pečarić, Josip E., 90k:46026**
Johnson, Raymond L. *see* **Benedetto, J. J.; et al., 90k:42015**
Lin, Henry Some weighted inequalities on product domains. **90i:42026**
Matkowski, Janusz The converse of the Minkowski's inequality theorem and its generalization. **90m:39025**
Mohapatra, Ram Narayan (*with* Vajravelu, K.) Integral inequalities resembling Copson's inequality. **90k:26029**
Muckenhoupt, Benjamin *see* **Ariño, Miguel A., 90k:42034**
Páles, Z. *see* **Daróczy, Zoltán, 90c:39020**
Pečarić, Josip E. (*with* Janić, Radovan R.) Some remarks on the paper: "Sur une inégalité de la norme" of D. Delbosco [Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 678-715(1980), 206–208; MR 82i:46021]. (Serbo-Croatian summary) **90k:46026**
— (*with* Volenec, Vladimir) Interpolation of the Jensen inequality with some applications. **90k:52026**
— *see also* **Adamović, Dušan D., 90f:26009**
Redheffer, Ray Estimation of an integral. **90j:33017**
Schöpf, Peter Moments of convex and monotone functions. **90i:26017**
Seiffert, H.-J. Eine Integralungleichung für streng monotone Funktionen mit logarithmisch konvexer Umkehrfunktion. [An integral inequality for strictly monotone functions with a logarithmically convex inverse function] **90c:26059**
Sinnamon, Gordon A note on the Stieltjes transformation. **90a:26026**
Sogge, C. D. Remarks on L^2 restriction theorems for Riemannian manifolds. **90h:42047**
Stepanov, V. D. Weighted inequalities of Hardy type for higher-order derivatives and their applications. **90k:42002**
Thandapani, E. Gronwall, Bihari and Langenhop type inequalities for discrete Pfaffian equation. **90g:39020**
— A sharp upper bound for discrete inequalities of Gronwall-Bellman type. **90f:39010**
Vajravelu, K. *see* **Mohapatra, Ram Narayan, 90k:26029**
Volenec, Vladimir *see* **Pečarić, Josip E., 90k:52026**

26D20 Other analytical inequalities

Abd-Allah, A. *see* **Hamad, G. D.; et al., 90c:26069**
Agarwal, Ravi Prakash Systems of multidimensional discrete inequalities. **90d:26033**
Alzer, Horst Ungleichungen für geometrische und arithmetische Mittelwerte. [Inequalities for geometric and arithmetic means] **90a:26034**
Andrica, Dorin (*with* Drimbe, Mihai Onucu) On some inequalities involving isotonic functionals. **90c:26068**
Brown, Gavin (*with* Shepp, Larry) A convolution inequality. **90j:26026**
Cibulis, Andris A simple proof of an inequality. (Russian) **90e:26037**
Craven, Thomas C. (*with* Csordas, G.) Jensen polynomials and the Turán and Laguerre inequalities. **90a:26035**
Csordas, G. *see* **Craven, Thomas C., 90a:26035**
Drimbe, Mihai Onucu *see* **Andrica, Dorin, 90c:26068**
Hamad, G. D. (*with* Salem, Sh.; Abd-Allah, A.) On some new discrete inequalities involving the shift operator *E*. **90c:26069**
Huang, Jian An inequality for positive bihomogeneous functionals on a cone of a linear space. (Chinese. English summary) **90a:26036**
Pachpatte, B. G. On some new discrete inequalities in two independent variables. **90k:26040**
Pečarić, Josip E. (*with* Zwick, D.) *n*-convexity and majorization. **90i:26027**
Ralph, W. J. Inequalities and semigroups. **90b:26017**
Raşa, I. A note on Jessen's inequality. **90f:26026**
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Sidorenko, A. F. (*with* Stechkin, B. S.) A class of extremal geometric constants and their applications. (Russian) **90f:26027**
Stechkin, B. S. *see* **Sidorenko, A. F., 90f:26027**
Stoyanov, Todor S. Inequalities for convex combinations of functions. (Bulgarian. English summary) **90e:26038**
Toader, Gh. Some generalizations of Jessen's inequality. **90b:26018**
— An exponential mean. **90c:26070**
Wang, Chung Hsin (*with* Yang, Kuo Shêng) Inequalities related to the arithmetic and geometric means. **90h:26035**
Wang, Peng Fei (*with* Wang, Wan Lan) An inequality for symmetric functions. (Chinese. English summary) **90j:26027**
Wang, Wan Lan *see* **Wang, Peng Fei, 90j:26027**
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Items with secondary classifications in 26D20

Aczél, J. (*with* Forte, B.) Entropies, generalized entropies, inequalities, and the maximum entropy principle. **90m:94025**
— (*with* Páles, Z.) The behaviour of means under equal increments of their variables. **90e:05015**
Cianchi, Andrea A sharp form of Poincaré type inequalities on balls and spheres. (Italian summary) **90k:49040**
Dragomir, S. S. (*with* Sándor, József) The Chebyshev inequality in pre-Hilbertian spaces. I. (Romanian summary) **90k:46048**
Erdélyi, T. Markov-type estimates for certain classes of constrained polynomials. **90f:41009**
Forte, B. *see* **Aczél, J., 90m:94025**
Franciosi, Michelangelo Weighted rearrangements and higher integrability results. **90e:42036**
Gabidzashvili, M. A. Weighted inequalities for potentials in spaces of homogeneous type. (Russian. English and Georgian summaries) **90m:46055**
Kryakin, Yu. V. Whitney constants. (Russian) **90j:26024**
Laforgia, Andrea (*with* Sismondi, Silvana) A geometric mean inequality for the gamma function. (Italian summary) **90j:33002**
Martins, Jorge Antonio Sanpaio Arithmetic and geometric means, an application to Lorentz sequence spaces. **90b:40002**
Páles, Z. *see* **Aczél, J., 90e:05015**
Popenda, Jerzy Finite difference inequalities. **90c:39006**
Post, K. A. A note on means. **90j:26025**
Sándor, József *see* **Dragomir, S. S., 90k:46048**
Sebestyén, Z. A general minimax inequality and its consequences. **90e:90148**
Sismondi, Silvana *see* **Laforgia, Andrea, 90j:33002**
Tortorici Macaluso, Adele Generalization of some inequalities for the gamma function. (Italian. English summary) **90b:33004**

26D99 None of the above, but in this section

Aczél, J. (*with* Losonczi, L.; Páles, Z.) The behaviour of comprehensive classes of means under equal increments of their variables. **90i:26028**
Alzer, Horst Über den Quotienten spezieller Mittelwerte. [On the quotient of special means] **90e:26039**
Girotto, Bruno (*with* Holzer, Silvano) Some de Finetti-Kolmogoroff-Nagumo type integral representation theorems for means on masses. (Italian summary) **90j:26028**
Gmeiner, W. (*with* Janous, Walter) A pair of general triangle inequalities. **90d:26034**
Holzer, Silvano *see* **Girotto, Bruno, 90j:26028**
Janous, Walter *see* **Gmeiner, W., 90d:26034**
Losonczi, L. *see* **Aczél, J.; et al., 90i:26028**
Milošević, D. M. Some inequalities for the triangle. (Serbo-Croatian summary) **90i:26029**
Neuman, E. Inequalities involving multivariate convex functions. II. **90k:26041**
Páles, Z. *see* **Aczél, J.; et al., 90i:26028**

Items with secondary classifications in 26D99

Kurtz, Douglas S. Operator estimates using the sharp function. **90g:42036**
Otsuki, Tominosuke Certain inequalities related with a nonlinear differential equation. III. **90i:34068**

26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions

Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**
Johnson, P. D., Jr. *see* **Boghossian, Artin B., 90e:26040**
Marchiò, Carla *see* **Pasini, Leonardo, 90i:26030**
Miller, John D. Finding the zeros of an analytic function. **90b:26019**
Pasini, Leonardo (*with* Marchiò, Carla) Exponentially and logarithmically closed Hardy fields in several variables. **90i:26030**
Rogulski, Jan Stanisław Contributions to the theory of para-analytic functions. **90d:26035**

Items with secondary classifications in 26E05

Cucker, Felipe Nash functions over real spectra. **90i:14026**
van den Dries, Lou Convergent series expansions of a new type for exponential functions. **90k:12003**
Kucharz, W. Sums of 2*n*th powers of real meromorphic functions. **90f:14013**
Logvinenko, V. N. Conditions of boundedness and conditions of slow growth along a real hyperplane of entire functions of exponential type. **90c:32003**

26E10 C^∞-functions, quasi-analytic functions

Buczolich, Z. Functions with finite intersections with analytic functions. **90i:26031**
Ha Huy Bang A property of infinitely differentiable functions. **90j:26029**
Ider, Mostéfa On the superposition of functions in Carleman classes. **90k:26042**
— *see also* **Siddiqi, Jamil A., 90h:26036**
Iri, Masao *see* **Kabaya-Imai, Keiko, 90i:26032**
Kabaya-Imai, Keiko (*with* Iri, Masao) On operators defining a family of nonanalytic C^∞-functions. **90i:26032**
McLeod, Robert M. (*with* Meisters, Gary Hosler) Smooth polynomial paths with nonanalytic tangents. **90b:26020**
Meisters, Gary Hosler *see* **McLeod, Robert M., 90b:26020**
Pawłucki, Wiesław (*with* Pleśniak, Wiesław) Approximation and extension of C^∞ functions defined on compact subsets of $\mathbf{C}^n$. **90e:26041**
Pleśniak, Wiesław *see* **Pawłucki, Wiesław, 90e:26041**
Schnabl, R. Über eine C^∞-Funktion. (English summary) [On a C^∞ function] **90k:26043**
Siddiqi, Jamil A. (*with* Ider, Mostéfa) Characterization of inverse-closed Beurling classes. **90h:26036**
Xiao, Yi Min A decomposition theorem for infinitely differentiable functions of two variables. (Chinese) **90e:26042**

Items with secondary classifications in 26E10

Amemiya, Ichiro (*with* Masuda, Kazuo) On Joris' theorem on differentiability of functions. **90a:26005**
Belingeri, Carlo Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) **90f:42025**
Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**
Johnson, P. D., Jr. *see* **Boghossian, Artin B., 90e:26040**
Masuda, Kazuo *see* **Amemiya, Ichiro, 90a:26005**

26E15 Calculus of functions on infinite-dimensional spaces

Items with secondary classifications in 26E15

Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. **90m:46042**

Pallaschke, D. (*with* Recht, P.) On extensions of the second-order derivative. **90k:58017**

Recht, P. *see* **Pallaschke, D., 90k:58017**

26E20 Calculus of functions taking values in infinite-dimensional spaces

Ghosh, Sankar On term by term differentiation of Banach-space-valued functions. **90f:26028**

Kozachenko, M. A necessary and sufficient condition for the isomorphism of multiplicative and additive systems without continuity conditions up to increasingly fine partitions. **90f:26029**

Michalski, Marek W. Remark on the formula for mth derivative of the composition of two Banach-valued functions. (Russian and Slovak summaries) **90d:26036**

Items with secondary classifications in 26E20

Dubois, Jacques (*with* M'Khalfi, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] **90c:26032**

Mânzatu, E. Fonctionnelles différentiables sur des espaces localement convexes. Applications dans la théorie générale des systèmes. (Romanian summary) [Functionals differentiable on locally convex spaces. Applications in general systems theory] **90k:46096**

M'Khalfi, A. *see* **Dubois, Jacques, 90c:26032**

26E25 Set-valued functions [see also 54C60]

Fryszkowski, Andrzej Caratheódory type selections of Aumann integrals. **90i:26033**

Gurzău, O. M. The convex I-functions. (Romanian summary) **90g:26013**

Leizarowitz, Arie A square shape of the graph of iterates of multifunctions: a complete controllability result. **90m:26029**

Zhang, Lian Sheng Some remarks on multivalued mappings. (Chinese. English summary) **90i:26034**

Items with secondary classifications in 26E25

Aubin, Jean-Pierre (*with* Wets, Roger J.-B.) Stable approximations of set-valued maps. (French summary) **90d:47065**

Bânzaru, T. (*with* Crivăţ, N.) On pointwise convergence and topological convergence for multifunction nets. **90e:54037**

Cardinali, Tiziana (*with* Papalini, Francesca) The lower and upper semicontinuity of a multifunction. (Italian. English summary) **90i:54048**

Crivăţ, N. *see* **Bânzaru, T., 90e:54037**

Frankowska, Halina Set-valued analysis and some control problems. (*see* **90d:93005**)

Kaidi, Latifa *see* **Mintchenko, L., 90h:90152**

Kindler, J. Sandwich theorems for set functions. **90d:28006**

Kisielewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. **90k:34010**

Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) **90e:46034**

Lee, Sung J. (*with* Nashed, M. Z.) Differential inclusions, linear selections, and an optimal control problem. **90g:49028**

Lee, Tan Yu Generalized convex set functions. **90g:49009**

Mintchenko, L. (*with* Kaidi, Latifa) Sur les propriétés différentielles de fonctions marginales. (English summary) [The differential properties of marginal functions] **90h:90152**

Nashed, M. Z. *see* **Lee, Sung J., 90g:49028**

Nikodem, Kazimierz Additive selections of additive set-valued functions. (Serbo-Croatian summary) (Not in MR)

Papalini, Francesca *see* **Cardinali, Tiziana, 90i:54048**

Pshenichnyĭ, B. N. Implicit function theorems for multi-valued mappings. **90k:26016**

Rockafellar, R. T. Proto-differentiability of set-valued mappings and its applications in optimization. **90k:90140**

Silin, D. B. Some properties of upper semicontinuous multivalued mappings. (Russian) **90e:49017**

Staicu, Vasile Generalized derivatives for C^1-parametrized multifunctions. (Italian summary) **90f:49010**

Torgashova, N. È. Modification of Kakutani's theorem and its application. **90k:54061**

Tsalyuk, V. Z. Lipschitz approximation of a multivalued function that satisfies the Carathéodory condition. (Russian) **90g:41028**

Ursescu, Corneliu Tangency and openness of multifunctions in Banach spaces. **90g:47122**

Wets, Roger J.-B. *see* **Aubin, Jean-Pierre, 90d:47065**

Zygmunt, Wojciech The Scorza-Dragoni's type property and product measurability of a multifunction of two variables. (Italian summary) **90c:28010**

26E30 Non-Archimedean analysis [see also 12J25]

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26E35 Nonstandard analysis [see also 03H05]

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28-06 Proceedings, conferences, etc.

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28Axx Classical measure theory

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28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

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Bradley, Richard C. An elementary treatment of the Radon-Nikodým derivative. **90d:28007**
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28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

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28A25 Integration with respect to measures and other set functions

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Benvenuti, P. (*with* Vivona, D.; Divari, M.) On the integral in the theory of information. (Italian. English summary) **90a:94022**
Bobillo Guerrero, P. (*with* Díaz Carrillo, M.) On the summability of certain μ-integrable functions. **90c:28018**
Darmawijaya, Soeparna An Orlicz scale of integrals. **90c:26029**
Díaz Carrillo, M. *see* **Bobillo Guerrero, P., 90c:28018**
Divari, M. *see* **Benvenuti, P.; et al., 90a:94022**
Dubois, Jacques (*with* M'Khalfi, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] **90c:26032**
M'Khalfi, A. *see* **Dubois, Jacques, 90c:26032**
Navara, Mirko When is the integration on quantum probability spaces additive? **90c:81018**
Pan, Wen Jie Two weighted norm inequalities for maximal functions involving families of convex sets or quasiconvex sets. (Chinese. English summary) **90k:42039**
Vivona, D. *see* **Benvenuti, P.; et al., 90a:94022**

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Anastassiou, George A. Smooth rate of weak convergence of convex type positive finite measures. **90k:28013**
Constantinescu, Corneliu Some properties of spaces of measures. **90d:28008**
Holá, Ľubica (*with* Neubrunn, Tibor) Hausdorff metric convergence of functions and its relation to the convergence in measure. **90f:28005**

Neubrunn, Tibor *see* **Holá, Ľubica, 90f:28005**
Schief, Andreas On continuous image averaging of Borel measures. **90e:28004**
Zhong, Hu Mian Necessary and sufficient conditions for the vague convergence of measures. (Chinese. English summary) **90m:28006**

Items with secondary classifications in 28A33

Moussaoui, M. Convergence étroite, convergence simple, convergence au sens de Kuratowski et hypoconvergence dans l'espace des mesures. [Narrow convergence, simple convergence, convergence in the sense of Kuratowski and hypoconvergence in the space of measures] **90i:46050**
Nevai, Paul Characterization of measures associated with orthogonal polynomials on the unit circle. **90m:42034a**
— Correction to: "Characterizations of measures associated with orthogonal polynomials on the unit circle". **90m:42034b**
Pták, Pavel FAT ↔ CAT (in the state space of quantum logics). (*see* **90a:00026**)
Schief, Andreas Topological properties of the addition map in spaces of Borel measures. **90g:46043**

28A35 Measures and integrals in product spaces

van Douwen, Eric K. Fubini's theorem for null sets. **90h:28007**
Fan, Da Yin On closedness of $(L^g \times L^g)^*$ under the mappings $\tau_{\alpha,\beta}$ and the relationship between the measures of E and $\tau_{\alpha,\beta}(E)$. (Chinese. English summary) **90h:28008**
Goguadze, D. F. The product of a finite number of arbitrary measures. (Russian) **90a:28008**
Grosse-Erdmann, Karl-Goswin An extension of the Steinhaus-Weil theorem. **90k:28014**
Kamiński, A. (*with* Mikusiński, P.; Sherwood, H.; Taylor, M. D.) Properties of a special class of doubly stochastic measures. **90c:28009**
Mikusiński, P. *see* **Kamiński, A.; et al., 90c:28009**
Sherwood, H. *see* **Kamiński, A.; et al., 90c:28009**
Taylor, M. D. *see* **Kamiński, A.; et al., 90c:28009**
Williams, Stanley Carl Universally measurable sets of finitely additive product measures. **90h:28009**
Zhong, Xin Min Exchange of repeated integral containing abstract integrals and Riemann integrals. (Chinese. English summary) **90h:28010**
Zygmunt, Wojciech The Scorza-Dragoni's type property and product measurability of a multifunction of two variables. (Italian summary) **90c:28010**

Items with secondary classifications in 28A35

Artstein, Zvi Yet another proof of the Lyapunov convexity theorem. **90g:28006**
Chen, Pei De *see* **Jiang, Tao; et al., 90f:28009**
Fernández y Fernández-Arroyo, Fidel José Fubini theorems in bilinear integration. (Spanish. English summary) **90d:28010**
Hansell, R. W. Sums, products and continuity of Borel maps in nonseparable metric spaces. **90d:28004**
Jefferies, Brian Fubini's theorem for Radon polymeasures. **90c:28019**
Jiang, Tao (*with* Xiong, Zheng Xin; Chen, Pei De) The Fubini theorems of stochastic measures. **90f:28009**
Navarro-Bermúdez, Francisco J. (*with* Oxtoby, John C.) Four topologically equivalent measures in the Cantor space. **90c:28020**
Oxtoby, John C. *see* **Navarro-Bermúdez, Francisco J., 90c:28020**
Shimomura, Hiroaki An aspect of differentiable measures on $\mathbf{R}^\infty$. **90a:28020**
Tempczyk, Wacława (*with* Wilczyński, Władysław) On some geometrical characterization of singular normed measures. (Polish summary) **90k:28010**
Wilczyński, Władysław *see* **Tempczyk, Wacława, 90k:28010**
Xiong, Zheng Xin *see* **Jiang, Tao; et al., 90f:28009**

28A50 Integration and disintegration of measures

Graf, Siegfried (*with* Mauldin, R. Daniel) A classification of disintegrations of measures. **90i:28012**
Kahane, Jean-Pierre Erratum: "Disintegration of measures according to dimension" [C. R. Acad. Sci. Paris Sér. I Math. **306** (1988), no. 3, 107–110; MR 89f:28015]. (French) **90b:28004**
Mauldin, R. Daniel *see* **Graf, Siegfried, 90i:28012**
Remy, Monika Disintegration and perfectness of measure spaces. **90a:28009**

Items with secondary classifications in 28A50

Bradley, Richard C. An elementary treatment of the Radon-Nikodým derivative. **90d:28007**
Kahane, Jean-Pierre Désintégration des mesures selon la dimension et chaos multiplicatif. [Disintegration of measures according to dimension and multiplicative chaos] **90d:60040**
Klei, Heinz-Albrecht Sur la désintégration de fonctionnelles inf-compactes. (English summary) [On the disintegration of inf-compact functionals] **90c:46059**
Rüttimann, Gottfried T. The approximate Jordan-Hahn decomposition. **90m:46115**

28A51 Lifting theory [see also 46G15]

Grekas, S. On the existence of idempotent liftings. **90b:28005**

Items with secondary classifications in 28A51

Filipczak, Tomasz On some abstract density topologies. **90d:28003**
Fremlin, David H. Measure algebras. (*see* **90k:06004**)
Traynor, Tim Lifting: the connection between functional representations of vector lattices. (*see* **90j:26001**)

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Choksi, J. R. (*with* Eigen, Stanley J.; Oxtoby, John C.; Prasad, V. S.) The work of Dorothy Maharam on measure theory, ergodic theory and category algebras. **90k:28015**
Eigen, Stanley J. *see* **Choksi, J. R.; et al., 90k:28015**
Fremlin, David H. Measure algebras. (*see* **90k:06004**)
Hackenbroch, Wolfgang Existenz und Vielfalt von invarianten Maßfortsetzungen. [Existence and diversity of invariant measure extensions] **90e:28005**
(Maharam, Dorothy) *see* **Choksi, J. R.; et al., 90k:28015**
Neubrunn, Tibor Generalized continuity and measurability. (*see* **90a:00026**)
Oxtoby, John C. *see* **Choksi, J. R.; et al., 90k:28015**
Prasad, V. S. *see* **Choksi, J. R.; et al., 90k:28015**
Tarantino, C. Decomposition theorems for finitely additive functions. **90k:28016**

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Burke, Maxim R. Fixed points of automorphisms of $I^{\aleph_1}$. **90h:03034**
Constantinescu, Corneliu Some properties of spaces of measures. **90d:28008**
van Douwen, Eric K. A σ-linked Boolean algebra without positive measure. **90k:06025**
Fleischer, Isidore "Place functions": alias continuous functions on the Stone space. **90a:06015**
Schief, Andreas Topological properties of the addition map in spaces of Borel measures. **90g:46043**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49F20]

Alexander, H. Remark on a lemma of Pommerenke. **90g:28015**
Amritkar, R. E. *see* **Gupte, Neelima, 90b:28006**
Arias de Reyna Martínez, Juan Hausdorff dimension of Banach spaces. **90c:28011**
Arneodo, A. (*with* Grasseau, G.; Holschneider, M.) Wavelet transform analysis of invariant measures of some dynamical systems. (*see* **90g:42062**)
Aurell, Erik An equivalence relation in some fractal sets. **90e:28006**
Barlow, Martin T. (*with* Taylor, Samuel James) Fractional dimension of sets in discrete spaces. **90h:28011**
Bene, J. Multifractal properties of a class of nonnatural measures as an eigenvalue problem. **90a:28010**
Biagini, Francesco (*with* Ragni, Marcello) Generalized area with vector weight. (Italian) **90k:28017**
Burdzy, Krzysztof Percolation dimension of fractals. **90m:28007**
Cianchi, Andrea On relative isoperimetric inequalities in the plane. (Italian summary) **90e:28007**
Das, S. K. (*with* Ray, K. C.) On sets of positive linear measure in a metric space. **90e:28008**
Edgar, G. A. Kiesswetter's fractal has Hausdorff dimension $\frac{3}{2}$. **90j:28003**
Elenbogen, Bruce (*with* Kaeding, Thomas) A weak estimate of the fractal dimension of the Mandelbrot boundary. **90a:28011**
Feiste, Uwe Expanding mappings and mixed invariant sets. (*see* **90g:28001**)
Ficker, T. Expansion of the Hausdorff dimension of the two-scale Cantor set. **90h:28012**
Gollub, M. *see* **Passamante, A.; et al., 90b:28009**
Good, I. J. Corrigenda: "The fractional dimensional theory of continued fractions" [Proc. Cambridge Philos. Soc. **37** (1941), 199–228; MR **3**, 75]. **90i:28013**
Grasseau, G. *see* **Arneodo, A.; et al., (90g:42062)**
Grząślewicz, Ryszard On the extreme discrete doubly stochastic measures. (*see* **90g:28001**)
Gupte, Neelima (*with* Amritkar, R. E.) New dimension in multifractals: the exponential dimension. **90b:28006**
Haase, H. A survey on packing measures. (*see* **90g:28001**)
— Packing measures on ultrametric spaces. **90b:28007**
Hediger, T. *see* **Passamante, A.; et al., 90b:28009**
Holschneider, M. *see* **Arneodo, A.; et al., (90g:42062)**
Humke, P. D. (*with* Petruska, G.) The packing dimension of a typical continuous function is 2. **90e:28009**
Kaeding, Thomas *see* **Elenbogen, Bruce, 90a:28011**
Kirchheim, Bernd Uniformly distributed measures, tangent measures and analytic varieties. (*see* **90g:28001**)
Liebovitch, Larry S. (*with* Toth, Tibor) A fast algorithm to determine fractal dimensions by box counting. **90k:28018**
Ling, Fu Hua On the fractal dimensions of a combined fractal set. **90c:28012**
Mandelbrot, Benoit B. Negative fractal dimensions and multifractals. **90m:28008**
Marion, Jacques Calcul de la mesure de Hausdorff des ensembles parfaits homogènes linéaires. (English summary) [Computation of the Hausdorff measure of linear homogeneous perfect sets] **90k:28019**
Mashanov, V. I. Estimates for the Hausdorff dimension of a class of sets of measure zero. (Russian. English summary) **90h:28013**
Matsushita, Mitsugu (*with* Ouchi, Shunji) On the self-affinity of various curves. **90k:28020**
Mattila, Pertti Distribution of measures in cones. (*see* **90g:28001**)
(Naudts, J.) *see* **Barlow, Martin T., 90h:28011**
Nguyen To Nhu Some applications of the construction of Menger curve to the geometric measure theory. **90b:28008**
Øksendal, Bernt Harmonic measures and fractals. (Norwegian. English summary) **90e:28010**
Ouchi, Shunji *see* **Matsushita, Mitsugu, 90k:28020**
Passamante, A. (*with* Hediger, T.; Gollub, M.) Fractal dimension and local intrinsic dimension. **90b:28009**
Pesin, Ya. B. Dimension-like characteristics for invariant sets of dynamical systems. **90e:28011**
Petruska, G. *see* **Humke, P. D., 90e:28009**
Pratsevityĭ, N. V. Singular distributions of Cantor and Salem types. (Russian) **90b:28010**
Przytycki, F. (*with* Urbański, Mariusz) On the Hausdorff dimension of some fractal sets. **90f:28006**
Ragni, Marcello *see* **Biagini, Francesco, 90k:28017**
Ray, K. C. *see* **Das, S. K., 90e:28008**
Taylor, Samuel James *see* **Barlow, Martin T., 90h:28011**
Toth, Tibor *see* **Liebovitch, Larry S., 90k:28018**
Totoki, Haruo (*with* Tsujii, Yoshiki) A remark on random fractals. **90m:28009**
Tricot, Claude Porous surfaces. **90a:28012**
Tsujii, Yoshiki *see* **Totoki, Haruo, 90m:28009**

Urbański, Mariusz *see* **Przytycki, F., 90f:28006**
Yin, Qing He (*with* Yuan, Jin Chen) A discussion of the proof of a lemma. (Chinese. English summary) **90h:28014**
Yuan, Jin Chen *see* **Yin, Qing He, 90h:28014**
Zaĭtsev, G. Yu. Estimation of the measure of a set of tangent planes to a compactum in a Euclidean space. (Russian) (*see* **90m:00015**)

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Adams, David R. A note on Choquet integrals with respect to Hausdorff capacity. **90c:26028**
de Arcangelis, Lucilla Fractals and multifractals in physics. (*see* **90d:82002**)
Badii, R. Generalized thermodynamic ensembles for fractal measures. (Italian and Russian summaries) **90d:58087**
Ball, Robin (*with* Blunt, Martin) Screening in multifractal growth. **90b:82046**
Barnsley, Michael F. ★ Fractals everywhere. **90e:58080**
Bedford, Tim The box dimension of self-affine graphs and repellers. **90e:58091**
Blunt, Martin *see* **Ball, Robin, 90b:82046**
Brady Moreira, F. G. *see* **Grillon, M. P., 90k:82025**
Brucks, K. M. Hausdorff dimension and measure of basin boundaries. **90m:58124**
Chhabra, Ashvin (*with* Jensen, Roderick V.) Direct determination of the $f(\alpha)$ singularity spectrum. **90c:58110**
Cutler, C. D. (*with* Dawson, D. A.) Estimation of dimension for spatially distributed data and related limit theorems. **90m:62116**
Dawson, D. A. *see* **Cutler, C. D., 90m:62116**
Dougherty, R. (*with* Kechris, Alexander S.) Hausdorff measures and sets of uniqueness for trigonometric series. **90g:42020**
Drobot, Vladimir (*with* Turner, John Christopher) Hausdorff dimension and Perron-Frobenius theory. **90a:11097**
Dubuc, B. On Takagi fractal surfaces. **90k:26020**
— (*with* Quiniou, J. F.; Roques-Carmes, C.; Tricot, Claude; Zucker, S. W.) Evaluating the fractal dimension of profiles. **90a:58101**
— (*with* Zucker, S. W.; Tricot, Claude; Quiniou, J. F.; Wehbi, D.) Evaluating the fractal dimension of surfaces. **90k:28001**
Falconer, K. J. Dimensions and measures of quasi self-similar sets. **90c:58103**
Feigenbaum, Mitchell J. (*with* Procaccia, Itamar; Tél, T.) Scaling properties of multifractals as an eigenvalue problem. **90c:58112**
Geronimo, J. S. (*with* Hardin, D. P.) An exact formula for the measure dimensions associated with a class of piecewise linear maps. **90d:58076**
Grillon, M. P. (*with* Brady Moreira, F. G.) Exact renormalization group approach on frustrated Sierpinski-type fractals. **90k:82025**
Gruber, Peter M. Dimension and structure of typical compact sets, continua and curves. **90k:54052**
Haase, H. The dimension of analytic sets. **90a:54094**
— Dimension functions. **90i:28009**
Hardin, D. P. *see* **Geronimo, J. S., 90d:58076**
Harrison, Jenny C. Embedded continued fractals and their Hausdorff dimension. **90e:58083**
Herbut, Igor (*with* Milošević, Sava) Hopping on hierarchical structures and random walking on deterministic fractals. **90k:82117**
Herrmann, Robert A. Fractals and ultrasmooth microeffects. **90d:03143**
Hunt, Fern (*with* Sullivan, Francis E.) Methods of computing fractal dimensions. **90i:58097**
(Hustad, Otte) *see* **Peitgen, Heinz-Otto, 90i:58088**
Jensen, Roderick V. *see* **Chhabra, Ashvin, 90c:58110**
Jones, Peter Wilcox (*with* Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. **90j:31001**
Jürgens, Hartmut *see* **Peitgen, Heinz-Otto, 90i:58088**
Kahane, Jean-Pierre Erratum: "Disintegration of measures according to dimension" [C. R. Acad. Sci. Paris Sér. I Math. **306** (1988), no. 3, 107–110; MR 89f:28015]. (French) **90b:28004**
Kechris, Alexander S. *see* **Dougherty, R., 90g:42020**
Koukiou, F. (*with* Pasche, J.; Petritis, D.) The Hausdorff dimension of the two-dimensional Edwards' random walk. **90b:82007**
Levitov, L. S. Renormalization group for a quasiperiodic Schrödinger operator. (French summary) **90b:58178**
Lokutsievskaya, E. O. The Hausdorff dimension of the cantorus in the Frenkel′-Kontorova model. **90f:82006**
Mandelbrot, Benoit B. (*with* Vicsek, Tamás) Directed recursive models for fractal growth. **90b:82080**
Milošević, Sava *see* **Herbut, Igor, 90k:82117**
Nottale, Laurent Fractals and the quantum theory of spacetime. **90k:81027**
Pasche, J. *see* **Koukiou, F.; et al., 90b:82007**
Peitgen, Heinz-Otto (*with* Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian. English summary) **90i:58088**
Petritis, D. *see* **Koukiou, F.; et al., 90b:82007**
Pitskel′, B. S. Topological pressure on noncompact sets. **90e:28027**
Procaccia, Itamar *see* **Feigenbaum, Mitchell J.; et al., 90c:58112**
Quiniou, J. F. *see* **Dubuc, B.; et al., 90a:58101** *and* **90k:28001**
Roques-Carmes, C. *see* **Dubuc, B.; et al., 90a:58101**
Ryabov, V. B. *see* **Vavriv, D. M., 90j:58101**
Schwalm, Mizuho K. *see* **Schwalm, William A., 90d:82029**
Schwalm, William A. (*with* Schwalm, Mizuho K.) Electronic properties of fractal-glass models. **90d:82029**
Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. **90j:03095**
Sullivan, Francis E. *see* **Hunt, Fern, 90i:58097**
Tél, T. *see* **Feigenbaum, Mitchell J.; et al., 90c:58112**
Tricot, Claude *see* **Dubuc, B.; et al., 90a:58101** *and* **90k:28001**
Turner, John Christopher *see* **Drobot, Vladimir, 90a:11097**
Urbański, Mariusz The Hausdorff dimension of the graphs of continuous self-affine functions. **90g:26004**
Vavriv, D. M. (*with* Ryabov, V. B.) The fractal dimension: calculation problems. (Russian **90j:58101**
Veerman, J. J. P. Irrational rotation numbers. **90f:58109**
Vicsek, Tamás *see* **Mandelbrot, Benoit B., 90b:82080**
Wallin, Hans Interpolating and orthogonal polynomials on fractals. **90d:41005**
Wehbi, D. *see* **Dubuc, B.; et al., 90k:28001**
Wolff, Thomas H. *see* **Jones, Peter Wilcox, 90j:31001**
Wu, Ying Kai Lacunarity and universality. **90i:82026**
Zähle, U. Self-similar random measures and carrying dimension. (*see* **90g:28001**)
Zhou, Yun Shi Higher-dimensional Euler-Maclaurin summation formulas. (Chinese. English summary) **90b:40007**
Zucker, S. W. *see* **Dubuc, B.; et al., 90a:58101** *and* **90k:28001**

28A99 None of the above, but in this section

Items with secondary classifications in 28A99

Choczewski, Bogdan (*with* Kuczma, Marek) A remark on doubly stochastic measures and functional equations. **90f:39013**
Kuczma, Marek *see* **Choczewski, Bogdan, 90f:39013**
Lapidus, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. **90c:28021**
Legut, Jerzy Inequalities for α-optimal partitioning of a measurable space. **90a:60004**
Malitz, Seth M. Measures of graphs on the reals. **90d:05198**
Zakharov, Valeriĭ Konstantinovich Lebesgue cover and Lebesguean extension. **90i:54044**

28Bxx Measures and integrals with values in abstract spaces

28B05 Vector-valued measures and integrals [see also 46G10]

Areshkin, G. Ya. *see* **Klyuchnikov, A. E., 90a:28014**
Areshkina, A. G. Integrals of scalar functions with respect to a vector measure, and linear operators. (Russian) **90a:28013**
Balder, E. J. Fatou's lemma in infinite dimensions. **90e:28012**
Bhaumik, K. N. *see* **Kundu, S. K., 90k:28021**
Bravo de la Parra, Rafael Un théorème de la valeur moyenne pour des intégrales bilinéaires. (English summary) [A mean-value theorem for bilinear integrals] **90d:28009**
Ferakova, Ludmila (*with* Náther, Ondrej) The range of vector measures and set-valued measures. **90h:28015**
Fernández y Fernández-Arroyo, Fidel José Derivability of the product of vector measures. (Spanish. English summary) **90c:28013**
— Fubini theorems in bilinear integration. (Spanish. English summary) **90d:28010**
Fiacca, Antonella The Burkhill-Cesari integral for Banach-space-valued set functions. (Italian. English summary) **90d:28012**
Fritzsche, Bernd (*with* Kirstein, Bernd) Schwache Konvergenz nichtnegativ hermitescher Borelmaße. (English summary) [Weak convergence of nonnegative Hermitian Borel measures] **90a:28015**
Gai, Yun Ying *see* **Li, Rong Lu; et al., 90e:28013**
Gordon, Russell A. The Denjoy extension of the Bochner, Pettis, and Dunford integrals. **90b:28011**
Jiménez Guerra, P. Differentiation of measures and bilinear vector integration. (Spanish) **90d:28011**
Kirstein, Bernd *see* **Fritzsche, Bernd, 90a:28015**
Kluvánek, Igor ★ Integration structures. **90c:28014**
Klyuchnikov, A. E. (*with* Areshkin, G. Ya.) Integral representation of weakly additive, weakly homogeneous continuous operators. (Russian) **90a:28014**
Kundu, S. K. (*with* Bhaumik, K. N.) On d-variation and d-semivariation of set functions. (Russian and Slovak summaries) **90k:28021**
Kusraev, A. G. (*with* Malyugin, S. A.) Atomic decomposition of vector measures. **90k:28022**
Li, Rong Lu (*with* Gai, Yun Ying; Lu, Rui) A generalization of Rosenthal's lemma. **90e:28013**
Lu, Rui *see* **Li, Rong Lu; et al., 90e:28013**
Malyugin, S. A. *see* **Kusraev, A. G., 90k:28022**
Nakanishi, Shizu Ranked-vector-space valued measures and the Radon-Nikodým theorem. **90c:28015**
Náther, Ondrej *see* **Ferakova, Ludmila, 90h:28015**
Ricker, Werner Vector measures with values in the compact operators. **90f:28007**
Spakowski, Andrzej Openness of vector measures and their integral maps. **90a:28016**
Szczypiński, Tomasz Nonlinear operator valued measures and integration. **90i:28014**

Items with secondary classifications in 28B05

Adol′f, V. A. (*with* Alyakin, V. A.) Continuation of Dobrakov's vector submeasure. **90h:28002**
Alyakin, V. A. *see* **Adol′f, V. A., 90h:28002**
Ballve, M. E. L^α-spaces and bornological integration. (Spanish. English summary) **90j:46041**
Blasco De La Cruz, Oscar Hardy spaces of vector-valued functions: duality. **90a:46082**
— Operators from H^1 into a Banach space and vector valued measures. **90k:47065**
Bravo de la Parra, Rafael L_p-spaces and convergence theorems for vector integrals. (Spanish English summary) **90b:46092**
Brooks, James K. (*with* Neal, David) The optional stochastic integral. **90h:60054**
Castaing, C. (*with* Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. **90a:46063**
— Convergence faible et sections extrémales. [Weak convergence and extremal sections [selections]] **90i:28016**
Dobrakov, Ivan Representation of multilinear operators on $\times C_0(T_i)$. **90c:46055**

— On integration in Banach spaces. XI. Integration with respect to polymeasures. **90k:46097**
Dubois, Jacques (*with* M'Khalfi, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] **90c:26032**
Haluška, Ján On integration in locally convex spaces. **90g:46065**
Hashimoto, Kazuo Integration in mixed topological spaces. **90m:46077**
Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. **90c:60029**
Janiec, Eugeniusz The Riemann integral for functions with values in a metric space. (Polish. English summary) **90c:28017**
Jefferies, Brian (*with* Okada, Susumu) Archimedes integrals and conuclear spaces. **90k:46098**
Kadets, V. M. The domain of weak limits of Riemann integral sums of an abstract function. **90k:46099**
Kamińska, A. *see* **Castaing, C., 90a:46063**
Kuchkarov, Ya. Kh. Weak convergence of L_0-valued distributions, and a functional central limit theorem. I. (Russian) **90a:60068a**
— Weak convergence of L_0-valued distributions, and a functional central limit theorem. II. (Russian) **90a:60068b**
Lavrič, Boris On the modulus of cone absolutely summing operators and vector measures of bounded variation. **90d:47023**
Masani, P. R. (*with* Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. I. Scalar-valued measures on δ-rings. **90f:46071**
— (*with* Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. II. Pettis integration. **90h:46077**
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M'khalfi, A. On a generalized multiple integral and the divergence theorem. **90e:26025**
Neal, David *see* **Brooks, James K., 90h:60054**
Niemi, Hannu *see* **Masani, P. R., 90f:46071** *and* **90h:46077**
Okada, Susumu *see* **Jefferies, Brian, 90k:46098**
Pincket, J. P. On the Riesz representation theorem for vector valued measures. **90k:46100**
Stochel, Jan The Fubini theorem for semispectral integrals and semispectral representations of some families of operators. **90a:47085**
Yu, Shu Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) **90i:43005**

28B10 Group- or semigroup-valued measures and integrals

Filter, Wolfgang (*with* Weber, Karl) The regular component of a group-valued set function. **90i:28015**
Lipovan, O. A probabilistic generalization of the Bartle, Dunford and Schwartz integrability model. **90f:28008**
Ohba, Sachio The Hewitt-Yosida decomposition. (Japanese summary) **90a:28017**
Weber, Karl *see* **Filter, Wolfgang, 90i:28015**

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Almeida, P. A direct approach to one variable noncommutative calculus. **90e:22009**
Constantinescu, Corneliu Some properties of spaces of measures. **90d:28008**
Fleischer, Isidore (*with* Traynor, Tim) Equicontinuity and uniform boundedness for noncommutative groups. **90m:22006**
Morales, Pedro A noncommutative version of the Brooks-Jewett theorem. **90f:06007**
Riečan, Beloslav Remark on an integral of M. Matloka. (Russian summary) **90a:26014**
Tarantino, C. Decomposition theorems for finitely additive functions. **90k:28016**
Traynor, Tim *see* **Fleischer, Isidore, 90m:22006**

28B15 Measures and integrals with values in general ordered systems

Cătuneanu, Irina $\mathscr{P}$-bounded operators and vector integrals. (Romanian) **90m:28010**
Volauf, Peter A note on lattice group valued measures. **90e:28014**

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Adol'f, V. A. (*with* Alyakin, V. A.) Continuation of Dobrakov's vector submeasure. **90h:28002**
Alyakin, V. A. *see* **Adol'f, V. A., 90h:28002**
Andreu, F. (*with* Mazón, J. M.; Segura de León, S.) A Radon-Nikodým theorem for Riesz space valued measures. **90m:46076**
Choy, Stephen T. L. Positive operators and algebras of dominated measures. **90g:47055**
Fritzsche, Bernd (*with* Kirstein, Bernd) Schwache Konvergenz nichtnegativ hermitescher Borelmaße. (English summary) [Weak convergence of nonnegative Hermitian Borel measures] **90a:28015**
Kirstein, Bernd *see* **Fritzsche, Bernd, 90a:28015**
Kolokol'tsov, V. N. (*with* Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. **90i:49033**
Maslov, V. P. *see* **Kolokol'tsov, V. N., 90i:49033**
Mazón, J. M. *see* **Andreu, F.; et al., 90m:46076**
Riečan, Beloslav Remark on an integral of M. Matloka. (Russian summary) **90a:26014**
Segura de León, S. *see* **Andreu, F.; et al., 90m:46076**
Swartz, Charles The Nikodým boundedness theory for lattice-valued measures. **90m:46078**
Tikhonov, O. E. On integration theory for spaces in spectral duality. (*see* **90a:00026**)

28B20 Set-valued measures; integration of set-valued functions; measurable selections [see also 54C60, 54C65]

Artstein, Zvi Parametrized integration of multifunctions with applications to control and optimization. **90k:28023**
Aseev, S. M. Surface set-valued functions and the integration of multivalued mappings. (Russian) **90b:28012**
Bressan, Alberto (*with* Cortesi, A.) Directionally continuous selections in Banach spaces. **90k:28024**
Castaing, C. Convergence faible et sections extrémales. [Weak convergence and extremal sections [selections]] **90i:28016**
Cortesi, A. *see* **Bressan, Alberto, 90k:28024**
El Arni, Abdelkhalek Représentation intégrale des multifonctions séparément additives et séparément lipschitziennes. [Integral representation of separately additive and separately Lipschitz functions] **90g:28016**
Janus, Julian A remark on Carathéodory type selections. **90d:28013**
Kandilakis, Dimitrios A. (*with* Papageorgiou, Nikolaos S.) On the properties of the Aumann integral with applications to differential inclusions and control systems. **90b:28013**
Li, Ai Jie *see* **Zhang, Wen Xiu; et al., 90m:28011**
Li, Teng (*with* Zhang, Wen Xiu) On the Radon-Nikodým derivative of a set-valued measure. (Chinese) **90i:28017**
Ma, Ji Feng *see* **Zhang, Wen Xiu; et al., 90m:28011**
Papageorgiou, Nikolaos S. Integrals of families of vector valued functions. **90e:28015**
— *see also* **Kandilakis, Dimitrios A., 90b:28013**
Precupanu, Anca-Maria Some properties of (B-M)-regular multimeasures. **90d:28014**
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Teodoru, Georgeta Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Darboux problem associated to a multivalued equation. **90i:28018**
Zhang, Wen Xiu (*with* Ma, Ji Feng; Li, Ai Jie) The extension of a compact set-valued measure. **90m:28011**
— *see also* **Li, Teng, 90i:28017**

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— On the qualitative theory of lower semicontinuous differential inclusions. **90e:34022**
Bulgakov, A. I. On the existence of continuous branches in multivalued mappings with nonconvex images in spaces of summable functions. **90a:49014**
Ferakova, Ludmila (*with* Náther, Ondrej) The range of vector measures and set-valued measures. **90h:28015**
Fryszkowski, Andrzej Carateódory type selections of Aumann integrals. **90i:26033**
Gajda, Zbigniew (*with* Ger, R.) Subadditive multifunctions and Hyers-Ulam stability. **90h:39009**
Ger, R. *see* **Gajda, Zbigniew, 90h:39009**
Hess, Christian Measurability and integrability of the weak upper limit of a sequence of multifunctions. **90h:90186**
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Kisielewicz, Michał Subtrajectory integrals of set-valued functions and neutral functional-differential inclusions. **90k:34010**
Klei, Heinz-Albrecht A compactness criterion in $L^1(E)$ and Radon-Nikodým theorems for multimeasures. (French summary) **90f:46058**
Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) **90e:46034**
Kurzhanskiĭ, A. B. (*with* Nikonov, O. I.) Funnel equations and multivalued integration problems for control synthesis. (*see* **90k:93008**)
Mauldin, R. Daniel One-to-one selections and orthogonal transition kernels. **90h:28001**
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Nikonov, O. I. *see* **Kurzhanskiĭ, A. B.**, (**90k:93008**)
Papageorgiou, Nikolaos S. Decomposable sets in the Lebesgue-Bochner spaces. **90b:46079**
— Measurable multifunctions and their applications to convex integral functionals. **90f:49009**
— Weak convergence and weak compactness for multifunctions with values in a separable Banach space. **90m:28005**
Plotnikov, A. V. Averaging differential inclusions with the Hukuhara derivative. **90d:34041**
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Przesławski, Krzysztof (*with* Yost, David Thomas) Continuity properties of selectors and Michael's theorem. **90d:49010**
Riečan, Beloslav A note on measurable selectors. **90a:03094**
Rustichini, Aldo A counterexample and an exact version of Fatou's lemma in infinite-dimensional spaces. **90k:46101**
Schmidt, Klaus D. Acknowledgement of priority. **90b:46014**
Ślęzak, Włodzimierz A. Concerning a.e.-continuous extensions of Baire 1 functions. (Polish summary) **90d:54037**
Yannelis, Nicholas C. *see* **Kim, Taesung; et al., 90b:54012**
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Chen, Pei De *see* **Jiang, Tao; et al., 90f:28009**
Janiec, Eugeniusz The Riemann integral for functions with values in a metric space. (Polish. English summary) **90c:28017**
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Fedrizzi, Mario (*with* Squillante, Massimo; Ventre, Aldo G. S.) On the range of ⊥-decomposable measures. **90j:28001**
Squillante, Massimo *see* **Fedrizzi, Mario; et al., 90j:28001**
Ventre, Aldo G. S. *see* **Fedrizzi, Mario; et al., 90j:28001**

28Cxx Measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing measures

Bobillo Guerrero, P. (*with* Díaz Carrillo, M.) On the summability of certain μ-integrable functions. **90c:28018**

Díaz Carrillo, M. *see* **Bobillo Guerrero, P., 90c:28018**

(Klambauer, G.) *see* **Meng, Jie,** (Not in MR)

Meng, Jie Correction of an error in G. Klambauer's *Real analysis* [American Elsevier, New York, 1973]. (Not in MR)

Sasvári, Zoltán Additivity of certain functionals and the construction of invariant integrals. **90e:28016**

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Volčič, A. *see* **Thomas, E. G. F., 90k:28025**

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Bouchitté, G. (*with* Valadier, M.) Integral representation of convex functionals on a space of measures. **90j:46030**

Khan, M. Ali On Cournot-Nash equilibrium distributions for games with a nonmetrizable action space and upper semi-continuous payoffs. **90f:90026**

Valadier, M. *see* **Bouchitté, G., 90j:46030**

Yamada, Shinichi A mathematical theory of randomized computation. II. **90d:68035b**

28C10 Measures on topological groups, Haar measures, invariant measures [see also 43A05]

Ciesielski, Krzysztof Algebraically invariant extensions of σ-finite measures on Euclidean space. **90f:28010**

Kharazishvili, A. B. Groups of motions and the uniqueness of the Lebesgue measure. (Russian. English and Georgian summaries) **90i:28019**

Lewandowski, Maciej (*with* Linde, W.) Real translates of complex measures. **90k:28026**

Linde, W. *see* **Lewandowski, Maciej, 90k:28026**

Nizharadze, G. V. (*with* Omiadze, K. T.) Combinatorics of nondiscrete groups of motions, and nonmeasurable sets. (Russian. English and Georgian summaries) **90i:28020**

Omiadze, K. T. *see* **Nizharadze, G. V., 90i:28020**

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Zakrzewski, Piotr Extensions of isometrically invariant measures on Euclidean spaces. **90m:28012**

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Blümlinger, M. Rajchman measures on compact groups. **90f:22003**

(Burger, Marc) *see* **de la Harpe, Pierre, 90m:22001**

Castaing, C. (*with* Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. **90a:46063**

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Gardner, Richard J. (*with* Laczkovich, M.) The Banach-Tarski theorem on polygons and the cancellation law. **90k:52001**

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Kamińska, A. *see* **Castaing, C., 90a:46063**

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Lahiri, B. K. Density and sparse set topology. **90a:22003**

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Sasvári, Zoltán Additivity of certain functionals and the construction of invariant integrals. **90e:28016**

Shavgulidze, E. T. A measure that is quasi-invariant with respect to the action of a group of diffeomorphisms of a finite-dimensional manifold. **90c:58030**

Valette, Alain *see* **de la Harpe, Pierre, 90m:22001**

Zakrzewski, Piotr On universal semiregular invariant measures. **90a:03074**

28C15 Measures on topological spaces (regularity of measures, etc.)

Bisgaard, Torben M. On the continuity of convolution semigroups. **90i:28021**

Chakraborti, T. *see* **Sarkhel, D. N., 90a:28018**

Gryllakis, Constantinos Homeomorphic measures on products of intervals. **90e:28017**

Jefferies, Brian Fubini's theorem for Radon polymeasures. **90c:28019**

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Navarro-Bermúdez, Francisco J. (*with* Oxtoby, John C.) Four topologically equivalent measures in the Cantor space. **90c:28020**

Ohta, Haruto (*with* Tamano, Ken-ichi) Topological spaces whose Baire measure admits a regular Borel extension. **90d:28016**

Oxtoby, John C. *see* **Navarro-Bermúdez, Francisco J., 90c:28020**

Sarkhel, D. N. (*with* Chakraborti, T.) Measurable boundaries of functions in topological Vitali measure spaces. **90a:28018**

Stoyanov, Tsvetan E. One measure on the space of compacts in $\mathbf{R}^n$ and its application on some classes of optimization problems. **90i:28022**

Tamano, Ken-ichi *see* **Ohta, Haruto, 90d:28016**

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Grosse-Erdmann, Karl-Goswin An extension of the Steinhaus-Weil theorem. **90k:28014**

Olubummo, A. A note on irregular measures. **90h:28004**

Tarashchanskiĭ, M. T. Uniqueness of the extension of a regular measure. **90g:28005**

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Yan, Jia An On monotone class theorems. (Chinese. English summary) **90g:28012**

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28C20 Measures and integrals in function spaces (Wiener measure, Gauss measure, etc.) [see also 58D20, 60B11]

Cameron, R. H. (*with* Storvick, D. A.) Relationships between the Wiener integral and the analytic Feynman integral. **90b:28014**

— (*with* Storvick, D. A.) Change of scale formulas for Wiener integral. **90d:28017**

Chang, Kun Soo (*with* Kim, Jeong Gyoo; Yoo, Il) Relationships between the sequential Yeh-Feynman integral and the Truman integral. **90a:28019**

Chung, Dong Myung (*with* Skoug, David) Conditional analytic Feynman integrals and a related Schrödinger integral equation. **90k:28028**

Kharazishvili, A. B. Borel measures in the space $\mathbf{R}^\alpha$. **90g:28017**

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Koval′chik, Yu. I. Approximate calculation of Feynman integrals using the Taylor formula. (Russian) **90k:28029**

Ktitarev, D. V. A limit theorem for complex measures. (Russian) (*see* **90m:00040**)

Lapidus, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. **90c:28021**

Park, Chull (*with* Skoug, David) A simple formula for conditional Wiener integrals with applications. **90c:28022**

Paul, Thierry Wavelets and path integral. (*see* **90g:42062**)

Shimomura, Hiroaki An aspect of differentiable measures on $\mathbf{R}^\infty$. **90a:28020**

Skoug, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. **90d:28018**

— *see also* **Park, Chull, 90c:28022** *and* **Chung, Dong Myung, 90k:28028**

Storvick, D. A. *see* **Cameron, R. H., 90b:28014** *and* **90d:28017**

Yamasaki, Yasuo ★ Measures on infinite-dimensional spaces. **90b:28015**

Yoo, Il *see* **Chang, Kun Soo; et al., 90a:28019**

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Ahn, Jae Moon (*with* Chang, Kun Soo; Yoo, Il) Some Banach algebras of Yeh-Feynman integrable functionals. **90k:46102**

Ambrosio, L. *see* **De Giorgi, E.; et al., 90e:49011**

Buttazzo, Giuseppe *see* **De Giorgi, E.; et al., 90e:49011**

Cameron, R. H. (*with* Storvick, D. A.) Unbounded Feynman integrable functionals defined in terms of analytic functions. **90b:81030**

Chang, Kun Soo (*with* Johnson, Gerald W.; Skoug, David) Necessary and sufficient conditions for membership in the Banach algebra S for certain classes of functions. **90b:46093**

— *see also* **Ahn, Jae Moon; et al., 90k:46102**

Chung, Dong Myung (*with* Kang, Soon Ja) Conditional Wiener integrals and an integral equation. **90a:60145**

De Giorgi, E. (*with* Ambrosio, L.; Buttazzo, Giuseppe) Integral representation and relaxation for functionals defined on measures. (Italian summary) **90e:49011**

Dorogovtsev, A. A. Elements of stochastic differential calculus. (Russian) **90c:60028**

Dvurečenskij, Anatolij Note on a construction of unbounded measures on a nonseparable Hilbert space quantum logic. (French summary) **90b:81011**

Egorov, A. D. An approximate formula of a given degree of accuracy for a functional integral with respect to a measure generated by an arbitrary random process. (Russian. English summary) **90h:65024**

Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les capacités gaussiennes en dimension infinie. (English summary) [On Gaussian capacities in infinite dimensions] **90h:46078**

Fil′, I. A. A set of cocycles connected with an $\mathbf{R}_0^\infty$-invariant measure. (Russian) **90a:46105**

Frolov, N. N. Complex distributions on a Hilbert space. (Russian) **90d:46068**

Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. **90c:60029**

Jefferies, Brian Cylindrical probabilities and the differentiation of vector measures. **90f:46072**

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— *see also* **Chang, Kun Soo; et al., 90b:46093**

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Khrennikov, A. Yu. Feynman measures on locally convex spaces. **90a:46106**

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Li, Yü Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. **90k:60125**

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Misiewicz, J. K. (*with* Ryll-Nardzewski, Czesław) Norm dependent positive definite functions and measures on vector spaces. **90k:46103**

Okazaki, Yoshiaki (*with* Takahashi, Yasuji) p-uniform measures on linear spaces $(0 \leq p < \infty)$. **90i:60005**

Park, Chull (*with* Skoug, David) The Feynman integral of quadratic potentials depending on n time variables. **90a:46107**

Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**

— ★ Continual means and boundary value problems in function spaces. **90m:35195**

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Ryll-Nardzewski, Czesław *see* **Misiewicz, J. K., 90k:46103**
Saha, P. K. (*with* Lahiri, B. K.) On further extensions of Steinhaus theorem. **90a:28004**
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Skoug, David *see* **Park, Chull, 90a:46107** *and* **Chang, Kun Soo; et al., 90b:46093**
Smoleński, Włodzimierz On a Gross' inequality. **90k:46104**
Sokhadze, G. A. Gaussian measures with an unbounded correlation operator. (Russian. English and Georgian summaries) **90k:46105**
Storvick, D. A. *see* **Cameron, R. H., 90b:81030**
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Uglanov, A. V. Smoothness of distributions of functionals of random processes. **90a:46108**
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Zhidkov, E. P. (*with* Lobanov, Yu. Yu.; Shakhbagyan, R. R.) A method for calculating path integrals without lattice discretization. (Russian) **90m:65052**

28C99 None of the above, but in this section

Rozen, V. V. Ordering of sets of probability measures. **90i:28023**
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Peng, Zu Zeng A measure on a molecular lattice. (Chinese. English summary) **90j:06009**
Yao, Bi Yun Characterizations of Carleson measures on $\mathbf{R}_+^{n+1}$. (Chinese) **90k:42040**

28Dxx Measure-theoretic ergodic theory [see also 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

Items with secondary classifications in 28Dxx

Mackey, George W. ★ Unitary group representations in physics, probability, and number theory. **90m:22002**

28D05 Measure-preserving transformations

Adamski, Wolfgang On the existence of invariant probability measures. **90j:28004**
Bezuglyĭ, S. I. (*with* Golodets, V. Ya.; Danilenko, A. I.) Extension of the 1-cocycles of dynamical systems onto the elements of the normalizer. (Russian. English summary) **90h:28016**
Bose, Christopher J. Generalized baker's transformations. **90c:28023**
Boshernitzan, Michael D. Rank two interval exchange transformations. **90c:28024**
Bourgain, J. An approach to pointwise ergodic theorems. **90b:28016**
— Pointwise ergodic theorems for arithmetic sets. **90k:28030**
Broise, M. (*with* Déniel, Yves; Derriennic, Y.) Réarrangement, inégalités maximales et théorèmes ergodiques fractionnaires. (English summary) [Rearrangement, maximal inequalities and fractional ergodic theorems] **90m:28013**
Chersi, Franco An ergodic decomposition of invariant measures for discrete semiflows on standard Borel spaces. **90g:28018**
Coffey, John Some remarks concerning an example of a minimal, non-uniquely ergodic interval exchange transformation. **90c:28025**
— Uniformly distributed D-sequences. **90k:28031**
Conze, Jean-Pierre (*with* Lesigne, Emmanuel) Sur un théorème ergodique pour des mesures diagonales. [On an ergodic theorem for diagonal measures] **90a:28021**
Courbage, M. (*with* Coutsomitros, C. Th.; Misra, Baidyanath) Faithfulness property of the transition from Bernoulli systems to irreversible Markov processes. **90e:28018**
Coutsomitros, C. Th. *see* **Courbage, M.; et al., 90e:28018**
Cowen, Robert Julian On the classification of one-sided Markov chains. **90m:28014**
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Déniel, Yves On the a.s. Cesàro-α convergence for stationary or orthogonal random variables. **90h:28017**
— *see also* **Broise, M.; et al., 90m:28013**
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Derriennic, Y. *see* **Broise, M.; et al., 90m:28013**
Eigen, Stanley J. (*with* Hajian, Arshag; Ito, Yuji) Ergodic measure preserving transformations of finite type. **90b:28017**
— (*with* Silva, Cesar E.) Finite full sets in 2-stack structures. **90h:28018**
— (*with* Hajian, Arshag) Sequences of integers and ergodic transformations. **90m:28016**
Filipczak, Tomasz A note on the recurrence theorem. (Polish summary) **90g:28019**
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Golodets, V. Ya. *see* **Bezuglyĭ, S. I.; et al., 90h:28016**
Hajian, Arshag *see* **Eigen, Stanley J.; et al., 90b:28017** *and* **90m:28016**
Häsler, Karin On the representation of d-dimensional configuration spaces by those of topological +-transitive type. **90m:28018**
Hawkins, Jane M. Ratio sets of endomorphisms which preserve a probability measure. **90k:28032**
Hellekalek, P. (*with* Larcher, G.) On functions with bounded remainder. (French summary) **90i:28024**
— (*with* Larcher, G.) On Weyl sums and skew products over irrational rotations. **90m:28019**
Hofbauer, Franz Generic properties of invariant measures for continuous piecewise monotonic transformations. **90b:28018**
Huang, Xian Hua Minimal set and classification of interval exchange transformations. **90g:28021**
Ito, Yuji *see* **Eigen, Stanley J.; et al., 90b:28017**
(Katznelson, Yitzhak) *see* **Bourgain, J., 90k:28030**
King, Jonathan (*with* Weiss, Benjamin) A group rotation factor of a nonrigid rank-1 map. **90b:28019**
— An obstruction to K-fold splitting. **90h:28020**
Larcher, G. *see* **Hellekalek, P., 90i:28024** *and* **90m:28019**
Lemańczyk, Mariusz Toeplitz Z_2-extensions. (French summary) **90b:28020**
— Factors of coalescent automorphisms. **90a:28022**
— On the weak isomorphism of strictly ergodic homeomorphisms. **90g:28022**
Lesigne, Emmanuel *see* **Conze, Jean-Pierre, 90a:28021**
Livshits, A. N. Sufficient conditions for weak mixing of substitutions and of stationary adic transformations. **90c:28027**
Lyons, Russell Mixing and asymptotic distribution modulo 1. **90d:28019**
Martín-Reyes, F. J. *see* **Gallardo Gómez, Diego, 90h:28019**
Maruyama, Fumio Sofic measures and sofic systems. **90d:28020**
Melentsov, A. A. (*with* Panov, V. G.) Pseudoconvergence and some ergodic properties of spaces of continuous functions. (Russian) **90j:28005**
Mentzen, Mieczysław K. Invariant sub-σ-algebras for substitutions of constant length. **90e:28019**
Mesiar, Radko On the limit properties of $T^n f/a_n$. **90i:28025**
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Mori, Makoto On the Fredholm determinant of a piecewise linear transformation. **90a:28023**
Nadkarni, M. G. Descriptive ergodic theory. **90h:28021**
Nadzieja, T. (*with* Šiška, J.) Existence of time averages from the topological point of view. **90e:28020**
Orey, Steven Weakly ergodic products of (random) nonnegative matrices. **90k:28033**
(Ornstein, Donald S.) *see* **Bourgain, J., 90k:28030**
Panov, V. G. *see* **Melentsov, A. A., 90j:28005**
Park, Kyewon On ergodic foliations. **90b:28021**
Pellegrinotti, A. Evidence for the Poisson distribution for quasi-energies in the quantum kicked-rotator model. **90e:28021**
Pospiech, Frank (*with* Stěpin, A. M.) Über die vollständige Nichtintegrierbarkeit eines Systems zweier Teilchen auf einem Intervall. [On the complete nonintegrability of a system of two particles on an interval] **90b:28022**
Restivo, Antonio Finitely generated sofic systems. **90i:28026**
Rindler, Harald Groups of measure preserving transformations. II. **90a:28024**
Robinson, E. A., Jr. Spectral multiplicity for nonabelian Morse sequences. **90a:28025**
Rogers, T. D. *see* **Shirvani, M., 90a:28029**
Rojek, Tadeusz The classification problem in Toeplitz Z_2-extensions. **90k:28034**
Rosenthal, Alain Strictly ergodic models for noninvertible transformations. **90a:28026**
— On strictly ergodic models for commuting ergodic transformations. (French summary) **90e:28023**
Rudolph, Daniel J. Rectangular tilings of $\mathbf{R}^n$ and free $\mathbf{R}^n$-actions. **90e:28024**
Rychlik, Marek Ryszard The Wiener lemma and cocycles. **90a:28028**
— Regularity of the metric entropy for expanding maps. **90a:28027**
Ryzhikov, V. V. A remark on multiple mixing. **90g:28023**
Sato, Ryotaro Zeros of integrals along trajectories of ergodic nonsingular flows. **90d:28021**
Shirvani, M. (*with* Rogers, T. D.) Ergodic endomorphisms of compact abelian groups. **90a:28029**
Silva, Cesar E. *see* **Eigen, Stanley J., 90h:28018**
Sinaĭ, Ya. G. The absence of the Poisson distribution for spacings between quasi-energies in the quantum kicked-rotator model. **90e:28022**
Šiška, J. *see* **Nadzieja, T., 90e:28020**
Steele, J. Michael Kingman's subadditive ergodic theorem. (French summary) **90e:28025**
Stěpin, A. M. *see* **Pospiech, Frank, 90b:28022**
Volný, Dalibor On nonergodic versions of limit theorems. (Russian and Czech summaries) **90m:28020**
Wagh, V. M. A descriptive version of Ambrose's representation theorem for flows. **90m:28021**
Wagoner, J. B. Markov partitions and K_2. **90d:28022**
Weiss, Benjamin *see* **King, Jonathan, 90b:28019; Glasner, S., 90c:28026** *and* **Furstenberg, Hillel, 90g:28020**
Williams, Susan A sofic system which is not spectrally of finite type. **90i:28027**
— Covers of non-almost-finite type sofic systems. **90c:28028**
Yue, Cheng Bo Dimension formula of invariant measures on hyperbolic sets. **90h:28022**
Zhou, Zuo Ling Topological Markov chains—the nonwandering set and topological entropy. (Chinese) **90f:28012**
Zou, Ying Lipschitz-ergodic transformation. **90c:28029**

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Akcoglu, M. A. (*with* Sucheston, L.) A superadditive mean ergodic theorem on Banach lattices. **90j:47005**
Andjel, Enrique D. Ergodic and mixing properties of equilibrium measures for Markov processes. **90g:60066**
Atalla, Robert Erratum to: "Markov operators and invariant Baire functions" [Rocky Mountain J. Math. **13** (1983), no. 3, 397–400; MR 86b:47010]. **90m:47016**
Bertrand-Mathis, Anne (*with* Volkmann, Bodo) On (ε, k)-normal words in connecting dynamical systems. **90m:11115**
Blanchard, F. β-expansions and symbolic dynamics. **90j:54039**
Blokh, A. M. (*with* Lyubich, M. Yu.) Ergodicity of transitive unimodal transformations of the interval. **90k:58109**
Bogachev, V. I. (*with* Prostov, Yu. I.) Polynomial diffeomorphism of a ball without invariant measures. (Russian) **90k:58110**
Borel, J.-P. Self-similar measures and sequences. **90f:11064**

Bose, Christopher J. Invariant measures and equilibrium states for piecewise $C^{1+\alpha}$ endomorphisms of the unit interval. **90b:58144**
Bourgain, J. Almost sure convergence in ergodic theory. **90k:47017**
Boyd, David W. Salem numbers of degree four have periodic expansions. **90j:11071**
Bułatek, Wojciech Topological conjugacy of Morse flows over finite abelian groups. **90b:58231**
Choksi, J. R. (*with* Eigen, Stanley J.; Oxtoby, John C.; Prasad, V. S.) The work of Dorothy Maharam on measure theory, ergodic theory and category algebras. **90k:28015**
Collet, P. (*with* Ferrero, Pierre Robert) Absolutely continuous invariant measure for expanding Pick maps of the interval except at a marginal fixed point. **90k:58111**
Çömez, Doğan A stochastic ergodic theorem for general additive processes. **90g:47013**
Demetrius, Lloyd Ergodic theory and dynamical systems in evolutionary biology. **90j:92019**
Eigen, Stanley J. *see* **Choksi, J. R.; et al., 90k:28015**
Eloranta, Kari On the order in chaos. (Finnish. English summary) **90k:58112**
Ferrero, Pierre Robert *see* **Collet, P., 90k:58111**
Fil′, I. A. A set of cocycles connected with an $\mathbf{R}_0^{\infty}$-invariant measure. (Russian) **90a:46105**
Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem for $k = 3$. **90k:05003**
Hadwin, Don (*with* Hoover, T. B.) Operator algebras and the conjugacy of transformations. II. **90a:46175**
Han, Mao An Unique ergodicity of flows on the torus and the rotation number. **90d:58077**
Hoover, T. B. *see* **Hadwin, Don, 90a:46175**
Iwanik, A. Weyl almost periodic points in topological dynamics. **90i:54086**
Jabłoński, Marian On convergence of iterates of the Frobenius-Perron operator for expanding mappings. **90b:47051**
Katznelson, Yitzhak *see* **Furstenberg, Hillel, 90k:05003**
Kay, Kenneth G. How strongly does classical ergodicity influence quantum behavior? **90g:81071**
Kim, Ki Hang (*with* Roush, Fred) Decidability of shift equivalence. **90g:54033**
Kowalski, Zbigniew S. Minimal generators for ergodic endomorphisms. **90b:28025**
Kraaikamp, C. Statistic and ergodic properties of Minkowski's diagonal continued fraction. **90m:11120**
Le Calvez, Patrice Introduction à la théorie ergodique. [Introduction to ergodic theory] **90d:58078**
Lesigne, Emmanuel Théorèmes ergodiques pour une translation sur un nilvariété. (English summary) [Ergodic theorems for a translation on a nilmanifold] **90e:58086**
Liu, Lin *see* **Liu, Xiang Jun; et al., 90m:58185**
Liu, Xiang Jun (*with* Sun, Yi Sui; Liu, Lin) Application of Lie transformation in area-preserving mapping. **90m:58185**
Lou, You-Shi The existence of absolutely continuous invariant measures for $C^{1+\varepsilon}$ Jabłonski transformation in $\mathbf{R}^n$. **90h:58053**
Lyubich, M. Yu. *see* **Blokh, A. M., 90k:58109**
(Maharam, Dorothy) *see* **Choksi, J. R.; et al., 90k:28015**
Nowicki, Tomasz A positive Liapunov exponent for the critical value of an S-unimodal mapping implies uniform hyperbolicity. **90c:58100**
Oxtoby, John C. *see* **Choksi, J. R.; et al., 90k:28015**
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Prostov, Yu. I. *see* **Bogachev, V. I., 90k:58110**
Pugh, Charles (*with* Shub, Michael) Ergodic attractors. **90h:58057**
Rauzy, G. Rotations sur les groupes, nombres algébriques, et substitutions. [Rotations on groups, algebraic numbers and permutations] **90g:11017**
Roush, Fred *see* **Kim, Ki Hang, 90g:54033**
Sato, Ryotaro On the ergodic power function for invertible positive operators. **90a:47023**
Shub, Michael *see* **Pugh, Charles, 90h:58057**
Socała, Jolanta Exactness of expanding mappings. **90d:58080**
Soloveĭchik, M. R. Ergodic properties of systems of classical statistical mechanics with an external potential. **90j:82006**
Strittmatter, Wolfram Finitely determined processes in metric spaces. **90d:60003**
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Sun, Yi Sui *see* **Liu, Xiang Jun; et al., 90m:58185**
Tichy, R. F. A criterion for the uniform distribution of sequences in compact metric spaces. **90c:11049**
Volkmann, Bodo *see* **Bertrand-Mathis, Anne, 90m:11115**
Wagoner, J. B. Realizing symmetries of a shift. **90c:58139**
Weiss, Benjamin Countable generators in dynamics—universal minimal models. **90g:28025**
Xiong, Jin Cheng A note on topological entropy. (Chinese) (Not in MR)
Yoshimoto, Takeshi Decomposition of measure spaces and stochastic ergodic theorems. **90e:47007**
Zargaryan, A. S. A variational principle for a symbolic Markov chain with a countable number of states. (Russian) (*see* **90m:00040**)

28D10 One-parameter continuous families of measure-preserving transformations

Ganikhodzhaev, N. N. Random walks along trajectories of groups of automorphisms of a Lebesgue space. II. (Russian) **90c:28030**
Krutina, Miroslav Asymptotic rate of a flow. **90k:28035**
Petersen, Karl The ergodic theorem with time compression. **90b:28023**
— Nonlinear sampling of a flow. **90i:28028**

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Broise, M. (*with* Déniel, Yves; Derriennic, Y.) Réarrangement, inégalités maximales et théorèmes ergodiques fractionnaires. (English summary) [Rearrangement, maximal inequalities and fractional ergodic theorems] **90m:28013**
Déniel, Yves *see* **Broise, M.; et al., 90m:28013**
Derriennic, Y. *see* **Broise, M.; et al., 90m:28013**
Gutkin, E. (*with* Katok, A.) Weakly mixing billiards. **90g:58098**
Johnson, Stewart D. Continuous measures in one dimension. **90g:58065**
Katok, A. *see* **Gutkin, E., 90g:58098**

Rudnicki, Ryszard Strong ergodic properties of a first-order partial differential equation. **90a:58097**
Rychlik, Marek Ryszard Another proof of Jakobson's theorem and related results. **90b:58149**
Soloveĭchik, M. R. Sufficient conditions for the Bernoulli property for K-systems and its application to classical statistical mechanics. **90m:58119**

28D15 General groups of measure-preserving transformations

Adams, Scot Indecomposability of treed equivalence relations. **90m:28022**
Bergelson, Vitaly (*with* Rudolph, Daniel J.) Weakly mixing actions of F^{∞} have infinite subgroup actions which are Bernoulli. **90b:28024**
— (*with* Rosenblatt, Joseph) Joint ergodicity for group actions. **90m:28023**
Chilin, V. I. (*with* Shipovskiĭ, A. N.) A statistical ergodic theorem in nonseparable symmetric spaces for dynamic systems with K-parameter time. (Russian) **90d:28023b**
— (*with* Shipovskiĭ, A. N.) A statistical ergodic theorem in nonseparable symmetric spaces for motions of the group $\mathbf{Z}^k$. (Russian) **90d:28023a**
Danilenko, A. I. *see* **Golodets, V. Ya., 90i:28029**
Ellis, Robert Mortimor (*with* Nerurkar, M.) Enveloping semigroup in ergodic theory and a proof of Moore's ergodicity theorem. **90g:28024**
Fëdorov, A. L. *see* **Veksler, A. S., 90c:28032** *and* **Rubshteĭn, B. A., 90k:28036**
Golodets, V. Ya. (*with* Danilenko, A. I.) Ergodic actions of abelian groups, and properties of their simultaneous actions. (Russian) **90i:28029**
Guivarc'h, Yves Propriétés ergodiques, en mesure infinie, de certains systèmes dynamiques fibrés. [Ergodic properties, in infinite measure, of certain fibered dynamical systems] **90i:28030**
Hawkins, Jane M. (*with* Silva, Cesar E.) Remarks on recurrence and orbit equivalence of nonsingular endomorphisms. **90i:28031**
— (*with* Robinson, E. A., Jr.) Approximately transitive (2) flows and transformations have simple spectrum. **90j:28006**
Kamiński, Brunon A representation theorem for perfect partitions of $\mathbf{Z}^2$-actions with finite entropy. **90e:28026**
Nerurkar, M. *see* **Ellis, Robert Mortimor, 90g:28024**
Nguyen To Nhu The group of measure preserving transformations of the unit interval is an absolute retract. **90m:28024**
Parczyk, Krystyna Time-average for physical quantities in infinite classical systems. **90d:28024**
Robinson, E. A., Jr. Nonabelian extensions have nonsimple spectrum. **90i:28032**
— *see also* **Hawkins, Jane M., 90j:28006**
Rosenblatt, Joseph *see* **Bergelson, Vitaly, 90m:28023**
Rubshteĭn, B. A. (*with* Fëdorov, A. L.) Defining families of subpartitions of the trajectory partition of a countable ergodic group. (Russian) **90k:28036**
Rudolph, Daniel J. *see* **Bergelson, Vitaly, 90b:28024**
Schmidt, Klaus D. Mixing automorphisms of compact groups and a theorem by Kurt Mahler. **90c:28031**
Shipovskiĭ, A. N. *see* **Chilin, V. I., 90d:28023a** *and* **90d:28023b**
Silva, Cesar E. *see* **Hawkins, Jane M., 90i:28031**
Veksler, A. S. (*with* Fëdorov, A. L.) On the conjugacy of homomorphisms of locally compact groups with respect to the outer group of a measurable equivalence relation. **90c:28032**
Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. **90a:28030**

Items with secondary classifications in 28D15

Ageev, O. N. Conjugacy of a group action to its inverse. (Russian) **90i:22010**
Auslander, Joseph (*with* Markley, N. G.) Proximal roots of minimal homeomorphisms. **90h:54046**
Connes, Alain (*with* Woods, E. J.) Hyperfinite von Neumann algebras and Poisson boundaries of time dependent random walks. **90h:46100**
Golodets, V. Ya. (*with* Sinel′shchikov, S. D.) Regularization of actions of groups and groupoids on measured equivalence relations. **90f:22007**
Liu, Lin *see* **Liu, Xiang Jun; et al., 90m:58185**
Liu, Xiang Jun (*with* Sun, Yi Sui; Liu, Lin) Application of Lie transformation in area-preserving mapping. **90m:58185**
Markley, N. G. *see* **Auslander, Joseph, 90h:54046**
Park, Kyewon On ergodic foliations. **90b:28021**
Ramachandran, D. A new proof of Hopf's theorem on invariant measures. **90k:28027**
Sinel′shchikov, S. D. *see* **Golodets, V. Ya., 90f:22007**
Sun, Yi Sui *see* **Liu, Xiang Jun; et al., 90m:58185**
Woods, E. J. *see* **Connes, Alain, 90h:46100**
Zimmer, Robert J. Representations of fundamental groups of manifolds with a semisimple transformation group. **90i:22021**

28D20 Entropy and other invariants

Abundo, M. Entropy and characteristic exponents for the quadratic map on the unit interval. **90i:28033**
Kowalski, Zbigniew S. Minimal generators for ergodic endomorphisms. **90b:28025**
Lind, D. A. (*with* Ward, Thomas Boulton) Automorphisms of solenoids and p-adic entropy. **90a:28031**
Lo Schiavo, M. Generating new invariants and related ergodicity. (Italian summary) **90i:28034**
Pitskel′, B. S. Topological pressure on noncompact sets. **90e:28027**
Podgorski, Krzysztof Martingale approach to Boltzmann's entropy and exact transformations. **90m:28025**
Ryzhikov, V. V. The Rohlin-Halmos property without ε does not hold for the actions of the group $\mathbf{Z}^2$. **90k:28037**
Ward, Thomas Boulton *see* **Lind, D. A., 90a:28031**
Weiss, Benjamin Countable generators in dynamics—universal minimal models. **90g:28025**

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Aldous, David J. (*with* Shields, Paul) A diffusion limit for a class of randomly-growing binary trees. **90k:60052**
Allouche, Jean-Paul (*with* Mendès France, Michel; Tenenbaum, Gérald) Entropy: an inequality. **90e:26033**
Barkmeijer, Jan The speed interval: a rotation algorithm for endomorphisms of the circle. **90b:58221**
Benatti, Fabio (*with* Narnhofer, Heide) Entropic dimension for completely positive maps. **90f:46102**
Bessis, D. (*with* Paladin, Giovanni; Turchetti, G.; Vaienti, S.) Generalized dimensions, entropies, and Liapunov exponents from the pressure function for strange sets. **90e:58097**
Cowen, Robert Julian On the classification of one-sided Markov chains. **90m:28014**
Donnay, Victor J. Geodesic flow on the two-sphere. II. Ergodicity. **90e:58127b**
— Geodesic flow on the two-sphere. I. Positive measure entropy. **90e:58127a**
Forte, B. (*with* Hughes, W. P.) A representation theorem for entropies with the branching property. **90h:94029**
Glendinning, Paul (*with* Los, Jérôme; Otero-Espinar, M. V.; Tresser, C.) Dynamique symbolique pour la renormalisation des endomorphismes d'entropie nulle de l'intervalle. (English summary) [Symbolic dynamics for the renormalization of endomorphisms on the unit interval with zero entropy] **90b:58155**
Hughes, W. P. *see* **Forte, B., 90h:94029**
Kannappan, Pl. (*with* Sahoo, P. K.) Weighted entropy of degree β on open domain. **90b:39016**
Kifer, Yuri (*with* Yomdin, Y.) Volume growth and topological entropy for random transformations. **90g:58067**
Knieper, Gerhard (*with* Weiss, Howard N.) Regularity of measure theoretic entropy for geodesic flows of negative curvature. I. **90e:58128**
(Kolmogorov, A. N.) *see* **Sinaĭ, Ya. G., 90b:01055**
Krutina, Miroslav Asymptotic rate of a flow. **90k:28035**
van Lambalgen, Michiel Complexity, randomness and unpredictability. **90c:68033**
Lind, D. A. Perturbations of shifts of finite type. **90g:54035**
Lopes, Artur Oscar The complex potential generated by the maximal measure for a family of rational maps. **90c:58099**
— A note on δ-equilibrium measures for rational maps. **90i:31008**
Los, Jérôme *see* **Glendinning, Paul; et al., 90b:58155**
Martin, N. F. G. On ergodic properties of restrictions of inner functions. **90c:30056**
Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 90e:26033**
Mendoza, Leonardo Topological entropy of homoclinic closures. **90e:58087**
Narnhofer, Heide *see* **Benatti, Fabio, 90f:46102**
Newhouse, Sheldon E. Continuity properties of entropy. **90f:58108**
— Corrections to: "Continuity properties of entropy" [Ann. of Math. (2) **129** (1989), no. 2, 215–235; MR 90f:58108]. **90m:58117**
Orey, Steven (*with* Pelikan, Stephan) Deviations of trajectory averages and the defect in Pesin's formula for Anosov diffeomorphisms. **90a:60057**
Otero-Espinar, M. V. *see* **Glendinning, Paul; et al., 90b:58155**
Paladin, Giovanni *see* **Bessis, D.; et al., 90e:58097**
Pelikan, Stephan *see* **Orey, Steven, 90a:60057**
Pesin, Ya. B. Dimension-like characteristics for invariant sets of dynamical systems. **90e:28011**
Petuaud, Catherine Entropie topologique des systèmes spécifiés. (English summary) [Topological entropy of systems with the specification property] **90j:54040**
Poon, Yiu-Tung A K-theoretic invariant for dynamical systems. **90c:46091**
Rychlik, Marek Ryszard Regularity of the metric entropy for expanding maps. **90a:28027**
Sahoo, P. K. *see* **Kannappan, Pl., 90b:39016**
Salama, Ibrahim A. Topological entropy and recurrence of countable chains. **90d:54076**
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Seidler, Gerald T. The topological entropy of homeomorphisms on one-dimensional continua. **90g:54012**
Shields, Paul *see* **Aldous, David J., 90k:60052**
Sinaĭ, Ya. G. About A. N. Kolmogorov's work on the entropy of dynamical systems. **90b:01055**
Stěpin, A. M. (*with* Tagi-Zade, A. T.) A combinatorial interpretation of the entropy of symbolic systems. **90m:05016**
Tagi-Zade, A. T. *see* **Stěpin, A. M., 90m:05016**
Tenenbaum, Gérald *see* **Allouche, Jean-Paul; et al., 90e:26033**
Thomas, Romeo F. Topological entropy of fixed-point free flows. **90m:58178**
Tresser, C. *see* **Glendinning, Paul; et al., 90b:58155**
Turchetti, G. *see* **Bessis, D.; et al., 90e:58097**
Vaienti, S. *see* **Bessis, D.; et al., 90e:58097**
Wagoner, J. B. Higher-dimensional shift equivalence and strong shift equivalence are the same over the integers. **90i:54088**
Weiss, Howard N. *see* **Knieper, Gerhard, 90e:58128**
Yomdin, Y. *see* **Kifer, Yuri, 90g:58067**
Yue, Cheng Bo Positive Lyapunov exponents do not imply positive metric entropy. **90b:58151**
Zhou, Zuo Ling Topological Markov chains—the nonwandering set and topological entropy. (Chinese) **90f:28012**

28D99 None of the above, but in this section

Fëdorov, A. L. *see* **Veksler, A. S., 90i:28035**
Kieffer, John C. An ergodic theorem for constrained sequences of functions. **90d:28025**
Moran, William Ergodic measures for the irrational rotation on the circle. **90f:28013**
Schmidt, Klaus D. Strong ergodicity and quotients of equivalence relations. **90b:28026**
Veksler, A. S. (*with* Fëdorov, A. L.) Representation of an outer group of a measurable equivalence relation by a group of connected polymorphisms. (Russian) **90i:28035**

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Badii, R. Generalized thermodynamic ensembles for fractal measures. (Italian and Russian summaries) **90d:58087**
Barnsley, Michael F. (*with* Elton, John H.; Hardin, D. P.) Recurrent iterated function systems. **90e:58081**
Boyarsky, Abraham *see* **Góra, P.; et al., 90b:58147**
Elton, John H. *see* **Barnsley, Michael F.; et al., 90e:58081**
Góra, P. (*with* Boyarsky, Abraham; Proppe, H.) Constructive approximations to densities invariant under nonexpanding transformations. **90b:58147**
Hardin, D. P. *see* **Barnsley, Michael F.; et al., 90e:58081**
Jajte, Ryszard Contraction semigroups in L^2 over a von Neumann algebra. **90c:46080**
Latushkin, Yu. D. (*with* Stěpin, A. M.) The weighted shift operator on a topological Markov chain. **90d:47034**
Proppe, H. *see* **Góra, P.; et al., 90b:58147**
Quasthoff, Uwe On mixing properties of automorphisms of von Neumann algebras related to measure space transformations. **90f:46109**
Stěpin, A. M. *see* **Latushkin, Yu. D., 90d:47034**
Tomiyama, Jun ★ Invitation to C^*-algebras and topological dynamics. **90a:46177**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Remarques sur la suite engendrée par des substitutions composées. (English summary) [Remarks on the sequence generated by composed substitutions] **90d:11093**
Wen, Zhi Ying *see* **Wen, Zhi Xiong, 90d:11093**

28Exx Miscellaneous topics

28E10 Fuzzy measures [see also 03E72]

Attia, Refaat Hassanein Some properties of m^*-fuzzy measurable sets and construction of fuzzy outer measures. (Arabic summary) **90c:28033**
— Fuzzy measures and fuzzy outer measures constructed by means of some known fuzzy outer measures. (Arabic summary) **90c:28034**
Benczúr, András (*with* József, Sándor) Fuzzy σ-algebras to be generated. (Hungarian. English summary) **90i:28036**
Bolaños, Manuel Jorge (*with* Lamata, Maria T.; Moral, S.) Extension of fuzzy measures using monotone expectation. (Spanish. English summary) **90a:28032**
— (*with* de Campos Ibáñez, Luis Miguel; González Muñoz, Antonio) Convergence properties of the monotone expectation and its application to the extension of fuzzy measures. **90k:28038**
— *see also* **de Campos Ibáñez, Luis Miguel, 90i:28037**
Butnariu, Dan Measurability concepts for fuzzy mappings. **90h:28023**
de Campos Ibáñez, Luis Miguel (*with* Bolaños, Manuel Jorge) Representation of fuzzy measures through probabilities. **90i:28037**
— *see also* **Bolaños, Manuel Jorge; et al., 90k:28038**
Candeloro, Domenico (*with* Pucci, Sabrina) Radon-Nikodým derivatives and conditioning in fuzzy measure theory. **90d:28026**
Delgado, M. (*with* Moral, S.) Upper and lower fuzzy measures. **90k:28039**
Dimiev, Vesselin Fuzzifying functions. **90k:28040**
Geng, Chun Ren *see* **Zhao, Yi Qiang, 90j:28008**
González Muñoz, Antonio *see* **Bolaños, Manuel Jorge; et al., 90k:28038**
Hua, Wen Xiu Extension theorems for some fuzzy measures. (Chinese. English summary) **90a:28033**
József, Sándor *see* **Benczúr, András, 90i:28036**
Lamata, Maria T. (*with* Moral, S.) Classification of fuzzy measures. **90k:28041**
— *see also* **Bolaños, Manuel Jorge; et al., 90a:28032**
Li, Mong Lin On additive fuzzy measure space. (Korean. English summary) **90d:28027**
Ma, Ji Feng *see* **Zhang, Wen Xiu, 90j:28007**
Moral, S. *see* **Bolaños, Manuel Jorge; et al., 90a:28032; Delgado, M., 90k:28039** *and* **Lamata, Maria T., 90k:28041**
Murofushi, Toshiaki (*with* Sugeno, Michio) An interpretation of fuzzy measures and the Choquet integral as an integral with respect to a fuzzy measure. **90b:28027**
Nanda, Sudarsan On integration of fuzzy mappings. **90k:28042**
Pap, Endre Submeasure characterization of the generalized λ-additive set functions. (Serbo-Croatian summary) **90a:28034**
Piasecki, Krzysztof Extension of fuzzy P-measure generated by usual measure. **90b:28028**
Pucci, Sabrina *see* **Candeloro, Domenico, 90d:28026**
Squillante, Massimo (*with* Ventre, Aldo G. S.) Representations of the fuzzy integral. **90e:28028**
Sugeno, Michio *see* **Murofushi, Toshiaki, 90b:28027**
Sun, Qing He *see* **Wang, Zhen Yuan, 90h:28024**
Ventre, Aldo G. S. *see* **Squillante, Massimo, 90e:28028**
Wang, Zhen Yuan (*with* Sun, Qing He) On autocontinuity of fuzzy measures. (Chinese. English summary) **90h:28024**
Ying, Ming Sheng Norm operators on infinitely many variables and a construction of a class of fuzzy measures. (Chinese. English summary) **90k:28043**
Yu, Yan Dong *see* **Zhao, Bao Yu, 90f:28014**
Zhang, Wen Xiu (*with* Ma, Ji Feng) The Lebesgue decomposition theorem for fuzzy set-valued measures. (Chinese) **90j:28007**
Zhao, Bao Yu (*with* Yu, Yan Dong) A note on TNF σ-algebras. (Chinese. English summary) **90f:28014**
Zhao, Ru Huai Generalized fuzzy integral. **90d:28028**
Zhao, Yi Qiang (*with* Geng, Chun Ren) F-valued F-measures and F-integrals with respect to them. (Chinese. English summary) **90j:28008**

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Dujet, Christiane Separation and measures of fuzziness. **90d:03116**
Ger, R. Christensen measurability and functional equations. **90h:39023**
Li, Mong Lin On fuzzy probability space. (Korean. English summary) (Not in MR)
Ma, Ming *see* **Wu, Cong Xin, 90i:46060**
Piasecki, Krzysztof On fuzzy P-measures. (*see* **90a:00026**)
— On fuzzily measurable random variables. **90b:60003**

Sgarro, Andrea Fuzziness measures for fuzzy rectangles. **90k:03053**
Wu, Cong Xin (*with* Ma, Ming) Some properties of fuzzy integrable function space $L^1(\mu)$. **90i:46060**

28E99 None of the above, but in this section

Items with secondary classifications in 28E99

Haase, H. Packing measures on ultrametric spaces. **90b:28007**
Kuznetsov, V. P. Interval measure and integral. (Russian) (*see* **90h:65004**)
Lipovan, O. The probabilistic submeasurability for the statistic space-valued functions. **90c:28007**
Masani, P. R. The place of multiplicative integration in modern analysis. **90b:01058**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–00 Handbooks, dictionaries, and other reference works

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Reviews in complex analysis ★ Reviews in complex analysis 1980–86. Vol. 1–4. **90b:00013**

30–01 Elementary exposition; textbooks

Adams, William J. ★ Elements of complex analysis. **90b:30001**
Booker, T. Hoy Bilinear basics. (Not in MR)
Dolićanin, Ćemal Matrix theory of circles of the Euclidean plane. (Russian. English and Serbo-Croatian summaries) (Not in MR)
Fedoryuk, M. V. *see* **Sidorov, Yu. V.; et al., 90e:30001**
Hern, Thomas *see* **Long, Cliff,** (Not in MR)
(Kozlov, Ernest) *see* **Markushevich, A. I., 90f:30001**
Long, Cliff (*with* Hern, Thomas) Graphing the complex zeros of polynomials using modulus surfaces. (Not in MR)
Markushevich, A. I. ★ Elementi di teoria delle funzioni analitiche. (Italian) [Elements of the theory of analytic functions] **90f:30001**
Shabunin, M. I. *see* **Sidorov, Yu. V.; et al., 90e:30001**
Sidorov, Yu. V. (*with* Fedoryuk, M. V.; Shabunin, M. I.) ★ Лекции по теории функций комплексного переменного. (Russian) [Lectures in the theory of functions of a complex variable] **90e:30001**

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(Kalinin, Konstantin) *see* **Krasnov, M. L.; et al., 90k:00014**
Kiselev, A. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Krasnov, M. L. (*with* Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] **90k:00014**
Makarenko, G. I. *see* **Krasnov, M. L.; et al., 90k:00014**
(Sislian, Jean) *see* **Smirnov, Vladimir Ivanovich, 90k:00002b**
Smirnov, Vladimir Ivanovich ★ Cours de mathématiques supérieures. Tome III. Deuxième partie. (French) [Course of higher mathematics. Vol. III. Part 2] **90k:00002b**

30–02 Advanced exposition (research surveys, monographs, etc.)

Fischer, Wolfgang (*with* Lieb, Ingo) ★ Ausgewählte Kapitel aus der Funktionentheorie. (German) [Selected chapters from function theory] **90d:30001**
Hallenbeck, D. J. Recent results in the theory of extreme points, support points and subordination. **90h:30001**
Henrici, Peter ★ Applied and computational complex analysis. Vol. 1. **90d:30002**
Lieb, Ingo *see* **Fischer, Wolfgang, 90d:30001**
Liu, Shu Qin Some results on univalent functions. **90a:30001**
(Magnus, Wilhelm) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Ren, Fu Yao Some results on H^p spaces and A^p Bergman spaces. **90a:30002**
(Shenitzer, A.) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Siegel, C. L. ★ Topics in complex function theory. Vol. I. **90h:30002**
— ★ Topics in complex function theory. Vol. II. **90h:30003**
(Solitar, D.) *see* **Siegel, C. L., 90h:30002**
(Tretkoff, M.) *see* **Siegel, C. L., 90h:30003**

Items with secondary classifications in 30–02

Baker, I. N. Iteration of entire functions: an introductory survey. **90d:30072**
Cai, Hai Tao *see* **Li, Guo Ping, 90b:30039**
Duren, P. L. Smirnov domains. (Russian summary) **90k:30066**
Genin, Yves An introduction to the modern theory of positive functions and some of its today applications to signal processing, circuits and systems problems. **90m:30046**
Koosis, Paul ★ The logarithmic integral. I. **90a:30097**
Li, Guo Ping (*with* Cai, Hai Tao) ★ Zhunjiexi hanshu lun. (Chinese) [Theory of quasianalytic functions] **90b:30039**
Liu, Shu Qin (*with* Zhang, Yu Lin; Ma, Wan Cang; Ma, Jin Xi) Some results on geometric function theory. (Chinese. English summary) **90d:30049**
— (*with* Zhang, Yu Lin; Ma, Wan Cang; Ma, Jin Xi) Some results in the theory of extreme points and support points. (Chinese. English summary) **90d:30025**
Ma, Jin Xi *see* **Liu, Shu Qin; et al., 90d:30025** *and* **90d:30049**
Ma, Wan Cang *see* **Liu, Shu Qin; et al., 90d:30025** *and* **90d:30049**
(McFaden, H. H.) *see* **Reshetnyak, Yu. G., 90d:30067**
Reshetnyak, Yu. G. ★ Space mappings with bounded distortion. **90d:30067**
Singh, Anand Prakash A glimpse into Nevanlinna's theory of meromorphic functions. **90k:30057**
Yang, Chung-chun Some aspects of factorization theory—a survey. **90d:30079**
Yang, Le Some results on value distribution theory of entire and meromorphic functions. **90m:30041**
Zhang, Yu Lin *see* **Liu, Shu Qin; et al., 90d:30025** *and* **90d:30049**

30–03 Historical (must also be assigned at least one classification number from Section 01)

(Korovkin, P. P.) *see* **Privalov, A. A., (90i:00006)**
Privalov, A. A. P. P. Korovkin's work on the theory of functions of a complex variable. (Russian) (*see* **90i:00006**)

Items with secondary classifications in 30–03

Ahlfors, L. V. The joy of function theory. **90m:01046**
— *see also* **Baernstein, Albert, II, 90h:30060** *and* **Drasin, David, 90k:30052**
Aleksandrov, I. A. (*with* Milin, I. M.) The Bieberbach conjecture and logarithmic coefficients of univalent functions. (Russian) **90m:30022**
Baernstein, Albert, II Ahlfors and conformal invariants. **90h:30060**
Belyĭ, V. I. (*with* Golub, A. P.; Shevchuk, I. A.) V. K. Dzyadyk's research on the theory of approximating functions of a complex variable. **90f:01054b**
Drasin, David The impact of Lars Ahlfors's work in value-distribution theory. **90k:30052**
Duma, Andrei Complex numbers in mathematics, mechanics and physics. (Italian) **90i:01017**
(Dzyadyk, V. K.) *see* **Belyĭ, V. I.; et al., 90f:01054b**
(Edrei, Albert) *see* **Biography: Edrei, Albert, 90m:01095a** *and* **90m:01095b**
(Fuchs, Wolfgang Heinrich Johannes) *see* **Biography: Edrei, Albert, 90m:01095a** *and* **90m:01095b**
Golub, A. P. *see* **Belyĭ, V. I.; et al., 90f:01054b**
(Hurwitz, Adolf) *see* **Weierstrass, Karl, 90a:01110**
Milin, I. M. *see* **Aleksandrov, I. A., 90m:30022**
(Remmert, R.) *see* **Weierstrass, Karl, 90a:01110**
Shevchuk, I. A. *see* **Belyĭ, V. I.; et al., 90f:01054b**
Steinmetz, Norbert de Branges' proof of the Bieberbach conjecture. **90g:30018**
(Ullrich, Peter) *see* **Weierstrass, Karl, 90a:01110**
Uluçay, Cengiz Proof of Bieberbach's conjecture: a survey. (Not in MR)
Weierstrass, Karl ★ Einleitung in die Theorie der analytischen Funktionen. (German) [Introduction to the theory of analytic functions] **90a:01110**

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  Fuchs, Wolfgang Heinrich Johannes Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095a**
  — Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095b**
Biography:
  Edrei, Albert Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095a**
  — Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095b**
  Fuchs, Wolfgang Heinrich Johannes Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095a**
  — Professor Wolfgang Heinrich Johannes Fuchs. Professor Albert Edrei. **90m:01095b**
  Hurwitz, Adolf *see* **Weierstrass, Karl, 90a:01110**
  Weierstrass, Karl Theodor Wilhelm *see* **Weierstrass, Karl, 90a:01110**

30–04 Explicit machine computation and programs (not the theory of computation or programming)

Brackx, F. (*with* Constales, Denis; Ronveaux, A.; Serras, H.) On the harmonic and monogenic decomposition of polynomials. **90i:30001**
Constales, Denis *see* **Brackx, F.; et al., 90i:30001**
Ronveaux, A. *see* **Brackx, F.; et al., 90i:30001**
Serras, H. *see* **Brackx, F.; et al., 90i:30001**

30–06 Proceedings, conferences, etc.

(Adnadjević, Dušan) *see* **Symposium: Complex Analysis and Applications, 90j:30001**
(Komatu, Yûsaku) *see* **Analytic function theory of one complex variable, 90k:30001**
(Niino, Kiyoshi) *see* **Analytic function theory of one complex variable, 90k:30001**
(Stoïlow, Simion) *see* **Proceedings: Commemorative Session: Simion Stoïlow, 90a:30003**
(Yang, Chung-chun) *see* **Analytic function theory of one complex variable, 90k:30001**

Items listed otherwise than by author

Analytic function theory of one complex variable ★ Analytic function theory of one complex variable. **90k:30001**
Anniversary:
  Birth of Stoïlow, Simion ★ Proceedings of the Commemorative Session: Simion Stoïlow. **90a:30003**
Braşov ★ Proceedings of the Commemorative Session: Simion Stoïlow. **90a:30003**
Hercegnovi ★ Third International Symposium on Complex Analysis and Applications. **90j:30001**

Proceedings:
Commemorative Session: Simion Stoïlow ★ Proceedings of the Commemorative Session: Simion Stoïlow. **90a:30003**
Session:
Stoïlow, Simion ★ Proceedings of the Commemorative Session: Simion Stoïlow. **90a:30003**
Symposium:
Complex Analysis and Applications ★ Third International Symposium on Complex Analysis and Applications. **90j:30001**

Items with secondary classifications in 30–06

(Cuyt, Annie) *see* **Nonlinear numerical methods and rational approximation, 90a:00023**
(Durand, Alain) *see* **Fifty years of polynomials, 90j:00018**
(Gohberg, I.) *see* **Orthogonal matrix-valued polynomials and applications, 90k:41001**
(Langevin, M.) *see* **Fifty years of polynomials, 90j:00018**
(Nikol′skiĭ, N. K.) *see* **Toeplitz operators and spectral function theory, 90h:47001**
(Nikol′skiĭ, S. M.) *see* **Theory of functions and approximations, 90d:00046** *and* **90i:00006**
(Waldschmidt, M.) *see* **Fifty years of polynomials, 90j:00018**
(Withalm, Claudio I.) *see* **Complex methods on partial differential equations in terms of differential operations, 90m:00035**

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Cinquante ans de polynômes ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**
Complex analysis and global analysis—from the viewpoint of differential equations ★ Fukusokaiseki to taiikikaiseki—bibun hōteishike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] **90c:58002**
Complex methods on partial differential equations in terms of differential operations ★ Complex methods on partial differential equations in terms of differential operations. (German) **90m:00035**
Conference:
Fifty Years of Polynomials ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**
Nonlinear Numerical Methods and Rational Approximation ★ Nonlinear numerical methods and rational approximation. **90a:00023**
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Lecture Notes in Mathematics ★ Cinquante ans de polynômes. (French) [Fifty years of polynomials] **90j:00018**
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School:
Theory of Functions and Approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
Seminar: Operator Theory ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Symposium Complex Analysis and Global Analysis—from the Viewpoint of Differential Equations ★ Fukusokaiseki to taiikikaiseki—bibun hōteishike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] **90c:58002**
Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Theory of functions and approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
Toeplitz operators and spectral function theory ★ Toeplitz operators and spectral function theory. **90h:47001**
Wilrijk ★ Nonlinear numerical methods and rational approximation. **90a:00023**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Atabaev, M. (*with* Zelinskiĭ, Yu. B.) A theorem on one of the criteria for analyticity of a function. (Russian) **90m:30001**
Globevnik, J. Integrals over circles passing through the origin and a characterization of analytic functions. **90d:30003**
Nie, Fu Sheng A note on an extremal identity. (Chinese) **90h:30004**
Telyakovskiĭ, D. S. Functions that are monogenic in the mean. (Russian) (*see* **90h:00005**)
— Generalization of a theorem of Men′shov on monogenic functions. **90h:30005**
Zelinskiĭ, Yu. B. *see* **Atabaev, M., 90m:30001**

Items with secondary classifications in 30A05

Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**
Johnson, P. D., Jr. *see* **Boghossian, Artin B., 90e:26040**

30A10 Inequalities in the complex domain

Blatt, H.-P. (*with* Saff, E. B.; Simkani, M.) Jentzsch-Szegő type theorems for the zeros of best approximants. **90a:30004**
Saff, E. B. *see* **Blatt, H.-P.; et al., 90a:30004**
Simkani, M. *see* **Blatt, H.-P.; et al., 90a:30004**

Items with secondary classifications in 30A10

Balasubramanian, Ramachandran (*with* Ramachandra, K.) A lemma in complex function theory. I, II. **90m:11124**
Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (*see* **90a:00013**)
Córdova Y., Antonio (*with* Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. **90h:30013**
Marshall, Donald E. A new proof of a sharp inequality concerning the Dirichlet integral. **90h:30097**
Milcetich, John G. On a coefficient conjecture of Brannan. **90d:30006**
Ramachandra, K. *see* **Balasubramanian, Ramachandran, 90m:11124**
Ruscheweyh, Stephan *see* **Córdova Y., Antonio, 90h:30013**
Saitoh, Saburou Inequalities of exponential type for analytic functions with finite Dirichlet integrals. **90c:30008**

30A99 None of the above, but in this section

Campos, L. M. B. C. On the branchpoint operator and the annihilation of differintegrations. **90d:30004**
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— Erratum: "Proof of power series and Laurent expansions of complex differentiable functions without use of Cauchy's integral formula or Cauchy's integral theorem". **90m:30002b**
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30Bxx Series expansions

30B10 Power series (including lacunary series)

Arakelyan, N. U. (*with* Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. II. **90c:30001**
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Bézivin, J.-P. Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] **90k:30002**
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Martirosyan, V. A. *see* **Arakelyan, N. U., 90c:30001**
Maxsein, Th. Potenzreihen die einer Wachstumsbedingung genügen und additive Koeffizienten besitzen. [Power series which satisfy a growth condition and have additive coefficients] **90i:30005**
Milcetich, John G. On a coefficient conjecture of Brannan. **90d:30006**
Moore, Charles N. *see* **Bañuelos, Rodrigo, 90i:30002**
Nestoridis, V. *see* **Katsoprinakis, E. S., 90k:30004**
Njåstad, Olav Multipoint Padé approximation and orthogonal rational functions. **90k:30005**
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Akbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) **90j:40001**
Bernal González, Luis On a theorem of Hardy and Littlewood. **90b:40011**
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Butzer, P. L. (*with* Schmidt, Michael; Stark, E. L.; Vogt, L.) Central factorial numbers; their main properties and some applications. **90d:05007**
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Conrey, J. Brian (*with* Ghosh, Amit) On the zeros of the Taylor polynomials associated with the exponential function. **90e:30006**
Ghosh, Amit *see* **Conrey, J. Brian, 90e:30006**
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Patel, Jagannath *see* **Kapoor, G. P., 90d:30047**
Reich, Ludwig On families of commuting formal power series. **90k:30042**
Schmidt, Michael *see* **Butzer, P. L.; et al., 90d:05007**
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Torriani, Hugo H. Constructive implicit function theorems. **90h:05017**
Trautner, Rolf Analytische Fortsetzbarkeit von zufälligen Potenzreihen bezüglich abhängiger Zufallsvariabler. (Russian summary) [Analytic continuability of random power series with respect to dependent random variables] **90a:60101**
Vogt, L. *see* **Butzer, P. L.; et al., 90d:05007**
Wilf, Herbert S. *see* **Knuth, Donald E., 90i:30065**

30B20 Random power series

Gilewicz, Jacek (*with* Truong-Van, Benoit) Froissart doublets in the Padé approximation and noise. **90h:30006**
Truong-Van, Benoit *see* **Gilewicz, Jacek, 90h:30006**
Xiao, Yi Min Random power series and α-Bloch functions. (Chinese. English summary) **90a:30006**

Items with secondary classifications in 30B20

Sun, Dao Chun Borel points of one type of random exponential series. (Chinese. English summary) **90g:30031**

30B30 Boundary behavior of power series, over-convergence

Makarov, N. G. Smooth measures and the law of the iterated logarithm. **90h:30007**

Items with secondary classifications in 30B30

Bernal González, Luis On a theorem of Hardy and Littlewood. **90b:40011**
Stojanova, Milena Overconvergence in rational approximation of meromorphic functions. **90h:30094**

30B40 Analytic continuation

Baker, George A., Jr. (*with* Oitmaa, J.; Velgakis, M. J.) Series analysis of multivalued functions. **90g:30001**
Franklin, Joel Analytic continuation by the fast Fourier transform. **90m:30004**
Iliev, Lyubomir G. ★ Analytisch nichtfortsetzbare Reihen. (German) [Analytically noncontinuable series] **90m:30005**
Korshunova, N. N. On the problem of analytic continuation from the interior subset of the domain of analyticity. (Russian) **90j:30003**
Odvirko-Budko, B. I. (*with* Tuvalova, S. A.) Estimates for conditional stability on the basis of a continuation algorithm. (Russian) **90e:30002**
— On analytic continuation from an arc of a curve. (Russian) **90j:30004**
Oitmaa, J. *see* **Baker, George A., Jr.; et al., 90g:30001**
Tuvalova, S. A. *see* **Odvirko-Budko, B. I., 90e:30002**
Uzakov, M. M. Stability of a multidimensional problem of the analytic continuation of a bounded analytic function from Jacobi nodes. (Russian) **90d:30007**
Velgakis, M. J. *see* **Baker, George A., Jr.; et al., 90g:30001**

Items with secondary classifications in 30B40

Arakelyan, N. U. (*with* Martirosyan, V. A.) The location of singularities of power series on the boundary of the disk of convergence. II. **90c:30001**
Katsoprinakis, E. S. (*with* Nestoridis, V.) Partial sums of Taylor series on a circle. (French summary) **90k:30004**
Kovacheva, R. K. Generalized Padé approximants of Kakehashi's type and meromorphic continuation of functions. **90b:41028**
Lê Hùng So'n The problem of continuation in generalized complex analysis and its applications. (Vietnamese) (Not in MR)
Martínez Finkelshtein, Andrei On the mth row of Newton type (α,β)-Padé tables and singular points. **90f:30047**
Martirosyan, V. A. *see* **Arakelyan, N. U., 90c:30001**
Nestoridis, V. *see* **Katsoprinakis, E. S., 90k:30004**
Strakhov, V. N. Analytic continuation and a solution of an inverse problem in gravimetry. (Russian) **90g:86009**
Tovmasyan, N. E. Analytic continuation of solutions of higher-order homogeneous nonregularly elliptic equations in the plane. **90j:35041**
Trautner, Rolf Analytische Fortsetzbarkeit von zufälligen Potenzreihen bezüglich abhängiger Zufallsvariabler. (Russian summary) [Analytic continuability of random power series with respect to dependent random variables] **90a:60101**

30B50 Dirichlet series and other series expansions, exponential series [see also 40-XX, 41-XX, 42-XX]

Berenstein, Carlos A. (*with* Struppa, Daniele C.) Dirichlet series and convolution equations. **90d:30008**
Bezkrovnyĭ, Yu. D. Some properties of matrix polynomials and Faber series. (Russian) **90b:30002**
Ibragimov, G. I. Representation of regular functions by Dirichlet series in a closed domain. (Russian. English and Azerbaijani summaries) **90a:30007**
Kahane, Jean-Pierre The last problem of Harald Bohr. **90f:30002**
Khromov, A. P. *see* **Molodenkov, V. A., (90d:00046)**
Krutigolova, E. K. *see* **Mel′nik, Yu. I., 90e:30004**
Kumar, Naresh (*with* Srivastava, G. S.) On the coefficients of analytic functions of fast growth. **90a:30008**
Lyubarskiĭ, Yu. I. Series of exponentials in spaces of functions that are defined on curves. **90e:30003**
Mel′nik, Yu. I. (*with* Krutigolova, E. K.) Properties of some special exponential series with complex exponents. **90e:30004**
Mo, Ye The Hadamard product of Legendre series. **90i:30006**
Molodenkov, V. A. (*with* Khromov, A. P.) Expansion of functions in Dirichlet series on convex polygons. (Russian) (*see* **90d:00046**)
Skaskiv, O. B. On the Wiman theorem on the minimum modulus of a function that is analytic in the unit disk. **90h:30008**
Sorokivskiĭ, V. M. On the behavior in a half strip of analytic functions that are represented by Dirichlet series. (Ukrainian. Russian summary) (Not in MR)
Srivastava, G. S. *see* **Kumar, Naresh, 90a:30008**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 90d:30008**
Vinnitskiĭ, B. V. Effective expansion of analytic functions in series in generalized systems of exponentials. **90j:30005**

Items with secondary classifications in 30B50

Agrawal, Purshottam Narain *see* **Kasana, H. S.; et al., 90c:30041**
Alibekov, G. A. *see* **Dzyadyk, V. K., 90k:30073**
Avdonin, S. A. (*with* Joó, István) Riesz bases of exponentials and sine-type functions. **90g:42058**
(Bohr, Harald) *see* **Kahane, Jean-Pierre, 90k:11116**
Dzyadyk, V. K. (*with* Alibekov, G. A.) Summation of the Faber series by linear Riesz and Fejér methods in domains with a piecewise-smooth boundary. (Russian) **90k:30073**
Grechanyuk, N. I. Behavior of the maximum term of a multiple Dirichlet series that represents an entire function. **90j:32004**
Hoischen, Lothar Asymptotische Approximation stetiger Funktionen durch Funktionenreihen. [Asymptotic approximation of continuous functions by function series] **90c:41066**
Ibragimov, G. I. Convergence of a double Dirichlet series in a product of closed polygons. **90b:32001**
Joó, István *see* **Avdonin, S. A., 90g:42058**
Kahane, Jean-Pierre Around Bohr's thesis. **90k:11116**
Kasana, H. S. (*with* Agrawal, Purshottam Narain; Singh, M. P.) The growth of coefficients of entire Dirichlet series and its derivatives. **90c:30041**
Kumar, Naresh (*with* Srivastava, G. S.) The mean values of real part of entire functions having index pair (p,q). **90d:30083**
Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. **90m:30033**
Rizvi, M. I. *see* **Srivastava, S. N., 90a:30079**
Safin, R. R. Representation of entire functions by generalized series of exponentials. (Russian) (*see* **90d:41001**)
Sharma, Poonam On the geometric means of an entire Dirichlet series of order (R) zero. **90g:30028**
Singh, M. P. *see* **Kasana, H. S.; et al., 90c:30041**
Srivastava, G. S. *see* **Kumar, Naresh, 90d:30083**
Srivastava, S. N. (*with* Rizvi, M. I.) On the geometric means of an entire function represented by Dirichlet series. **90a:30079**
Sun, Dao Chun Borel points of one type of random exponential series. (Chinese. English summary) **90g:30031**

30B60 Completeness problems, closure of a system of functions

Avetisyan, A. E. Completeness and minimality of the system of functions $\{E_\rho(\lambda_k z;\mu)\}_1^\infty$. **90d:30009**
Chui, C. K. (*with* Shen, Xie Chang) On completeness of the system $\{(1-\overline{\alpha}_i z)^{-\alpha-1}\}$ in $A^p(\varphi)$. **90a:30009**
Dzhrbashyan, M. M. (*with* Grigorian, N. V.) A new generalization of the classical theorem of G. Szegő. **90b:30003**
Grigorian, N. V. *see* **Dzhrbashyan, M. M., 90b:30003**
Grigoryan, Souren Arshakovich A property of almost-periodic analytic functions. **90h:30009**
Ibragimov, F. I. *see* **Ibragimov, I. I., 90c:30002**
Ibragimov, I. I. (*with* Ibragimov, F. I.) Multiple completeness in the sense of M. V. Keldysh of some systems of analytic functions. (Russian) **90c:30002**
Kalinin, S. I. On the completeness of a system of exponential monomials. (Russian) (*see* **90d:41001**)
Kaz′min, Yu. A. A theorem on the basis property for systems close to one another and its applications. **90h:30010**
Martirosyan, V. M. The closure and property of being a basis of some systems of rational functions. (Russian. English and Armenian summaries) **90f:30003**
Shen, Xie Chang *see* **Chui, C. K., 90a:30009**

Items with secondary classifications in 30B60

Avetisyan, A. E. Completeness of some systems of entire functions on finite segments. (Russian. Armenian summary) **90d:30106**
Bikmukhametov, I. Kh. Estimation of a polynomial of generalized exponentials in an angle. (Russian) (*see* **90d:41001**)
Linchuk, N. E. Representation of commutants of a Pommiez operator and their applications. **90a:47079**

30B70 Continued fractions [see also 11A55, 40A15]

Brezinski, Claude On the asymptotic behaviour of continued fractions. **90a:30010**
Čanak, Miloš S. Die Anwendung der verzweigten komplexen Kettenbrüche in der Theorie der nichtanalytischen Funktionen. [The application of branching complex continued fractions in the theory of nonanalytic functions] **90g:30002**
Jacobsen, Lisa Approximants for functions represented by limit periodic continued fractions. **90j:30006**
— (*with* Thron, W. J.; Waadeland, H.) Some observations on the distribution of values of continued fractions. **90j:30007**
— (*with* Waadeland, H.) A result on nearness of functions and their regular C-fraction expansions. **90d:30010**
Jones, William B. Schur's algorithm extended and Schur continued fractions. **90h:30011**
López Lagomasino, Guillermo Convergence of Padé approximants for meromorphic functions of Stieltjes type and comparative asymptotics for orthogonal polynomials. **90g:30003**
Masson, David R. Some continued fractions of Ramanujan and Meixner-Pollaczek polynomials. **90i:30007**
Njåstad, Olav Laurent continued fractions corresponding to pairs of power series. **90a:30011**
Thron, W. J. *see* **Jacobsen, Lisa; et al., 90j:30007**
Waadeland, H. Some recent results in the analytic theory of continued fractions. **90h:30012**
— *see also* **Jacobsen, Lisa, 90d:30010** *and* **90j:30007**

Items with secondary classifications in 30B70

Achuthan, P. (*with* Ponnuswamy, S.) A theorem of Ramanujan and conversion of continued fractions into power series. **90a:11014**
Baltus, Christopher (*with* Jones, William B.) Truncation error bounds for modified continued fractions with applications to special functions. **90h:65021**
Cooper, S. Clement (*with* Magnus, Arne; Jones, William B.) General T-fraction solutions to Riccati differential equations. **90j:34006**
Hendriksen, E. (*with* Njåstad, Olav) Positive multipoint Padé continued fractions. **90i:40002**
Hovstad, R. M. A short proof of a continued fraction test for the stability of polynomials. **90a:30013**
Jones, William B. (*with* Thron, W. J.) Continued fractions in numerical analysis. **90e:65021**
— (*with* Thron, W. J.) Contraction of the Schur algorithm for functions bounded in the unit disk. **90i:30041**
— *see also* **Baltus, Christopher, 90h:65021** *and* **Cooper, S. Clement; et al., 90j:34006**
Levrie, Paul Pringsheim's theorem revisited. **90b:40004**
Magnus, Arne *see* **Cooper, S. Clement; et al., 90j:34006**
Nakada, Hitoshi On metric Diophantine approximation of complex numbers, complex continued fractions. **90f:11067**
Njåstad, Olav Contractive Laurent fractions and nested discs. **90e:30035**
— *see also* **Hendriksen, E., 90i:40002**
Ponnuswamy, S. *see* **Achuthan, P., 90a:11014**
Thron, W. J. L-polynomials orthogonal on the unit circle. **90j:30059**
— *see also* **Jones, William B., 90e:65021** *and* **90i:30041**

30B99 None of the above, but in this section

Bulanov, A. P. Convergence of multiple powers. (Russian) (*see* **90i:00006**)
Nishiwada, Kimimasa A holomorphic structure of the arithmetic-geometric mean of Gauss. **90f:30004**

Items with secondary classifications in 30B99

Wood, B. Uniform approximation with positive linear operators generated by binomial expansions. **90d:41044**

30Cxx Geometric function theory

30C10 Polynomials

Aziz, Abdul[1] Integral mean estimates for polynomials with restricted zeros. **90a:30012**
Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (*see* **90a:00013**)
Belyaev, V. A. A description of the structure of a set of convergence of a sequence of polynomials in the complex plane. (Russian) (*see* **90i:00006**)
Bidkham, M. (*with* Dewan, K. K.) Bounds for the zeros of polynomials. **90i:30008**
Cachafeiro López, Ma. Alicia (*with* Marcellán, Francisco) Orthogonal polynomials and jump modifications. **90b:30004**
Córdova Y., Antonio (*with* Ruscheweyh, Stephan) On maximal polynomial ranges in circular domains. **90f:30005**
— (*with* Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. **90h:30013**
Dewan, K. K. *see* **Bidkham, M., 90i:30008**
Fabre, Caroline La meilleure constante pour un produit de polynômes. (English summary) [The best constant for a product of polynomials] **90d:30011**
Govil, N. K. On the maximum modulus of polynomials not vanishing inside the unit circle. **90k:30006**
Huang, Jian On a conjecture about polynomials. (Chinese) **90h:30014**
Luo, Jin Yun Discussion of a conjecture. (Chinese) **90e:30005**
Marcellán, Francisco (*with* Rodriguez, Isabel) A class of matrix orthogonal polynomials on the unit circle. **90i:30009**
— *see also* **Cachafeiro López, Ma. Alicia, 90b:30004**
Rodriguez, Isabel *see* **Marcellán, Francisco, 90i:30009**
Ruscheweyh, Stephan *see* **Córdova Y., Antonio, 90f:30005** *and* **90h:30013**

Items with secondary classifications in 30C10

Ahmadi, M. *see* **Erfani, S.; et al.,** (Not in MR)
Barbeau, E. J. ★ Polynomials. **90f:12001**
Beauzamy, Bernard A minimization problem connected with a generalized Jensen inequality. **90m:30048**
Bikmukhametov, I. Kh. Estimation of a polynomial of generalized exponentials in an angle. (Russian) (*see* **90d:41001**)
(Boas, Ralph P.) *see* **Kreĭn, M. G.; et al., 90f:26016**
Boghossian, Artin B. (*with* Johnson, P. D., Jr.) Pointwise conditions for analyticity and polynomiality of infinitely differentiable functions. **90e:26040**
Chevskiĭ, V. M. The distribution of the zeros of some meromorphic functions. (Russian) **90j:30008**
— Generalization of a theorem of Laguerre. **90i:30010**
Dewan, K. K. On the location of zeros of polynomials. **90c:30004**
Durand, Alain Quelques aspects de la théorie analytique des polynômes. I, II. [Some aspects of the analytic theory of polynomials. I, II] **90m:12003**
Erfani, S. (*with* Ahmadi, M.; Ramachandran, Venkat) The general recurrence relation for arbitrary rational transformation of polynomials. (Not in MR)
Gautschi, Walter On the zeros of polynomials orthogonal on the semicircle. **90f:30006**
Giroux, André *see* **Newman, Donald J., 90h:30017**
Johnson, P. D., Jr. *see* **Boghossian, Artin B., 90e:26040**
Katsoprinakis, E. S. (*with* Nestoridis, V.) Partial sums of Taylor series on a circle. (French summary) **90k:30004**
Kędzierawski, A. (*with* Waniurski, J.) Bi-univalent polynomials of small degree. **90h:30045**
Kreĭn, M. G. (*with* Levin, B. Ya.; Nudel′man, A. A.) On a special representation of polynomials that are positive on a system of closed intervals. **90f:26016**
Landau, H. J. Polynomials orthogonal in an indefinite metric. (*see* **90k:41001**)
Levin, B. Ya. *see* **Kreĭn, M. G.; et al., 90f:26016**
Marcellán, Francisco (*with* Pérez Grasa, I.) The moment problem on equipotential curves. **90f:30042**
Milcetich, John G. On a coefficient conjecture of Brannan. **90d:30006**
Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. **90m:30007**
Nestoridis, V. *see* **Katsoprinakis, E. S., 90k:30004**
Nevai, Paul (*with* Totik, V.) Orthogonal polynomials and their zeros. **90i:33021**
Newman, Donald J. (*with* Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. **90h:30017**
Nudel′man, A. A. *see* **Kreĭn, M. G.; et al., 90f:26016**
Pérez Grasa, I. *see* **Marcellán, Francisco, 90f:30042**
Qiu, Wei Yuan On the construction of convergent iterative sequences of polynomials. **90i:30042**
Ramachandran, Venkat *see* **Erfani, S.; et al.,** (Not in MR)
Rubinstein, Zalman An efficient method for the K-continuation of a polynomial. **90d:30013**
Saffari, Bahman (*with* Smith, Brent) Inexistence de polynômes ultra-plats de Kahane à coefficients ±1. Preuve de la conjecture d'Erdős. (English summary) [Nonexistence of ultra-flat Kahane polynomials with coefficients ±1. Proof of the Erdős conjecture] **90k:11108**
Smith, Brent *see* **Saffari, Bahman, 90k:11108**
Thron, W. J. L-polynomials orthogonal on the unit circle. **90j:30059**
Totik, V. *see* **Nevai, Paul, 90i:33021**
Tulovsky, Vladimir On perturbations of roots of polynomials. **90m:30009**
Varga, Richard S. Scientific computation on some mathematical conjectures. **90k:00049**
Wallet, G. Comment É. Picard désingularisait une courbe algébrique plane complexe. [How É. Picard desingularized a complex algebraic plane curve] (*see* **90j:03116**)
Waniurski, J. *see* **Kędzierawski, A., 90h:30045**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Aliev, T. G. *see* **Tamrazov, P. M., (90d:00046)**
Boese, F. G. (*with* Luther, W. J.) A note on a classical bound for the moduli of all zeros of a polynomial. **90h:30015**
Bose, N. K. *see* **Delansky, J. F., 90c:30003**
Brown, Johnny E. On the Ilieff-Sendov conjecture. **90d:30012**
Chevskiĭ, V. M. The distribution of the zeros of some meromorphic functions. (Russian) **90j:30008**
— Generalization of a theorem of Laguerre. **90i:30010**
Conrey, J. Brian (*with* Ghosh, Amit) On the zeros of the Taylor polynomials associated with the exponential function. **90e:30006**
Csordas, G. (*with* Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. **90b:30005**
Dallakyan, R. V. Zeros of functions that are analytic in a disk and allow growth near its boundary. (Russian. Armenian summary) **90h:30016**
Delansky, J. F. (*with* Bose, N. K.) Schur stability and stability domain construction. **90c:30003**
Dewan, K. K. On the location of zeros of polynomials. **90c:30004**
Dilcher, Karl (*with* Stolarsky, Kenneth B.) Zeros of certain rational approximations to the cosecant. **90j:30009**
Foo, Y. K. *see* **Soh, Y. C., 90b:30006**
Gautschi, Walter On the zeros of polynomials orthogonal on the semicircle. **90f:30006**
Ghosh, Amit *see* **Conrey, J. Brian, 90e:30006**
Giroux, André *see* **Newman, Donald J., 90h:30017**
Hovstad, R. M. A short proof of a continued fraction test for the stability of polynomials. **90a:30013**
Kannan, V. Converses of Lucas's theorem. **90m:30006**
Lepschy, A. (*with* Mian, G. A.; Viaro, U.) Euclid-type algorithm and its applications. **90f:30007**
Luther, W. J. *see* **Boese, F. G., 90h:30015**

Mian, G. A. *see* **Lepschy, A.; et al., 90f:30007**
Miller, Michael J. Maximal polynomials and the Ilieff-Sendov conjecture. **90m:30007**
Newman, Donald J. (*with* Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. **90h:30017**
Nicolas, Jean-Louis (*with* Schinzel, A.) Localisation des zéros de polynômes intervenant en théorie du signal. [Location of the zeroes of polynomials arising in signal theory] **90k:30007**
Rubinstein, Zalman An efficient method for the K-continuation of a polynomial. **90d:30013**
Schinzel, A. *see* **Nicolas, Jean-Louis, 90k:30007**
Soh, Y. C. (*with* Foo, Y. K.) Generalized edge theorem. **90b:30006**
Stolarsky, Kenneth B. *see* **Dilcher, Karl, 90j:30009**
Tamrazov, P. M. (*with* Aliev, T. G.) Accounting for zeros and for nonunivalent holomorphic functions in contour-solid theorems. (Russian) (*see* **90d:00046**)
Todorov, P. G. Über die Verteilung der Nullstellen von zwei assoziierten Klassen von ganzen und gebrochenenrationalen Funktionen. (Russian and Polish summaries) [On the distribution of zeros of two associated classes of entire and broken-rational functions] **90e:30007**
Tornehave, Hans On the zeros of entire almost periodic functions. **90m:30008**
Tudor, Gheorghe M. Sur la répartition des zéros d'une classe de fonctions. (Romanian summary) [On the distribution of zeros of a class of functions] **90h:30018**
Tulovsky, Vladimir On perturbations of roots of polynomials. **90m:30009**
Varga, Richard S. *see* **Csordas, G., 90b:30005**
Viaro, U. *see* **Lepschy, A.; et al., 90f:30007**
Wagner, Gerold Sala On a problem of Erdős, Herzog and Piranian. **90d:30014**
Wang, Xiao Jun The new geometric criterion of polynomial stability. **90a:30014**
Yi, Hong Xun On zeros of differential polynomials. (Chinese. English summary) **90j:30010**
Zaheer, Neyamat On pseudo polar-derivatives of abstract polynomials. **90j:30011**

Items with secondary classifications in 30C15

Alpay, Daniel (*with* Gohberg, I.) On orthogonal matrix polynomials. (*see* **90k:41001**)
Anagnost, John J. *see* **Minnichelli, Robert J.; et al., 90i:93114**
Argoun, Mohammad B. On the stability of low-order perturbed polynomials. **90m:93109**
Avetisyan, A. E. Entire functions of order ρ $(1<\rho<2)$. **90m:30034**
Barmish, B. Ross An extreme point result for robust stability of discrete-time interval polynomials. (*see* **90m:93004**)
— *see also* **Fu, Minyue, 90e:93081**
Barsegyan, G. A. Distributions of the roots of meromorphic functions. (Russian) **90d:30089**
Barszcz, Marek Roots localization for neutral equations and their sensitivity for a change of delay. **90a:34165**
Basu, Sankar On the multidimensional generalization of robustness of scattering Hurwitz property of complex polynomials. **90g:93072**
Baykal-Gürsoy, Melike *see* **Caines, P. E., 90e:30037a** *and* **90e:30037b**
Benidir, Messaoud Schüssler's stability theorem in the complex domain. (French and German summaries) **90m:93090**
Berger, C. S. *see* **Soh, C. B., 90e:93085**
Berry, Michael Victor Semiclassical formula for the number variance of the Riemann zeros. **90e:81037**
Bhattacharyya, Shankar Prashad *see* **Chapellat, Hervé, 90e:93079**
Bose, N. K. (*with* Delansky, J. F.) Boundary implications for interval positive rational functions. **90e:93078**
— (*with* Kim, K. D.) Stability of a complex polynomial set with coefficients in a diamond and generalizations. **90i:93106**
Caines, P. E. (*with* Baykal-Gürsoy, Melike) On the L^∞ consistency of L^2 estimators. **90e:30037a**
— (*with* Baykal-Gürsoy, Melike) Corrigendum to: "On the L^∞ consistency of L^2 estimators". **90e:30037b**
Chapellat, Hervé (*with* Bhattacharyya, Shankar Prashad) Calculation of maximal stability domains using an optimality property of Kharitonov polynomials. **90e:93079**
Chen, Chih Fan (*with* Hsiao, Ch'i Huang) Stability tests for singular cases of discrete systems. **90h:93085**
Chuang, Yao T'ang Strictly Hurwitz property analysis for polynomials with uncertain coefficients. **90i:93108**
— *see also* **Lin, Shui Hsiu; et al., 90j:93097**
Cucker, Felipe (*with* Gonzalez Corbalan, Antonio) An alternate proof of the continuity of the roots of a polynomial. **90h:12003**
Davison, E. J. *see* **Qiu, Li, 90m:93114**
Delansky, J. F. *see* **Bose, N. K., 90e:93078**
Desoer, Charles A. *see* **Minnichelli, Robert J.; et al., 90i:93114**
Djaferis, T. E. (*with* Hollot, C. V.) Shaping conditions and the stability of systems with parameter uncertainty. (*see* **90j:93003**)
— (*with* Hollot, C. V.) The stability of a family of polynomials can be deduced from a finite number $O(k^3)$ of frequency checks. **90i:93109**
— (*with* Hollot, C. V.) A Routh-like test for the stability of families of polynomials with linear uncertainty. **90j:93095**
Fam, Adly T. Stability conditions for polynomials via quadratic inequalities in their coefficients. (*see* **90j:93003**)
Fêng, I Kang *see* **Lin, Shui Hsiu; et al., 90j:93097**
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— A generalization of multivalent functions with negative coefficients. **90c:30009**
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Shlyk, V. A. Normal Grötzsch regions and topologically removable sets for n-dimensional homeomorphisms. **90c:30036**

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— Existence of extremal mappings onto a cube. (Russian) **90k:30037**

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Sullivan, Dennis Quasiconformal homeomorphisms in dynamics, topology, and geometry. **90a:58160**

Suzuki, Osamu *see* **Kalina, Jerzy; et al., 90e:35145**

Vodop′yanov, S. K. Geometric properties of domains and mappings. Lower bounds on the norm of the extension operator. (Russian) **90e:46029**

— Mappings of homogeneous groups and embeddings of function spaces. **90m:46061**

Yamamoto, Hiro-o *see* **Nakanishi, Toshihiro, 90g:30043**

Yatsun, V. A. Non-self-dual instantons and quasiconformal mappings. **90f:58036**

Zając, Józef *see* **Cieślak, W., 90a:30070a** *and* **90a:30070b**

30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

Cieślak, W. (*with* Zając, Józef) On the Ahlfors class N in an annulus. (Russian and Polish summaries) **90a:30070a**

— (*with* Zając, Józef) Remarks on the Ahlfors class N in an annulus. **90a:30070b**

Duren, P. L. (*with* Schiffer, M. M.) Conformal mappings onto nonoverlapping regions. **90a:30071**

Overholt, Marius The extreme points of the set of Schwarzians of univalent functions. **90h:30056**

Schiffer, M. M. *see* **Duren, P. L., 90a:30071**

Sorokin, A. S. The G. M. Goluzin-P. P. Kufarev variational method and the M. V. Keldysh-L. I. Sedov formula. **90k:30039**

Zając, Józef *see* **Cieślak, W., 90a:30070a** *and* **90a:30070b**

Items with secondary classifications in 30C70

Godula, Janusz (*with* Nowak, Maria) Integral means of α-strongly starlike functions. **90a:30027**

Lavrent′ev, M. A. ★ Variational methods for boundary value problems for systems of elliptic equations. **90k:35088**
Ma, Wan Cang Schiffer's differential equation for univalent meromorphic functions and its applications. (Chinese. English summary) **90f:30022**
McMullen, Curt Amenability, Poincaré series and quasiconformal maps. **90e:30048**
Nowak, Maria On a certain class of meromorphic and univalent functions. (Russian and Polish summaries) **90c:30019**
— *see also* **Godula, Janusz, 90a:30027**
(Radok, J. R. M.) *see* **Lavrent′ev, M. A., 90k:35088**
Taniguchi, Masahiko Abelian differentials with normal behavior and complex pinching deformation. **90d:30123**
Wegert, E. Boundary value problems and extremal problems for holomorphic functions. **90h:30105**

30C75 Extremal problems for conformal and quasiconformal mappings, other methods

Kuz′mina, G. V. On extremal properties of quadratic differentials with end domains in the structure of trajectories. (Russian) **90i:30037**
Kuznetsov, V. O. Properties of associated quadratic differentials in some extremal problems. (Russian) **90h:30057**
Luo, Dong Han Support points of multivalent functions. (Chinese. English summary) **90h:30058**
Marshall, Donald E. (*with* Sundberg, Carl) Harmonic measure and radial projection. **90b:30027**
Solynin, A. Yu. Solution of the Pólya-Szegő isoperimetric problem. (Russian) **90h:30059**
Sundberg, Carl *see* **Marshall, Donald E., 90b:30027**

Items with secondary classifications in 30C75

Anderson, G. D. (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti) Inequalities for the extremal distortion function. **90e:30022**
Andreev, V. V. (*with* Duren, P. L.) Inequalities for logarithmic coefficients of univalent functions and their derivatives. **90c:30026**
Bulboacă, Teodor Applications of the Briot-Bouquet differential subordination. **90m:30013**
Colonna, Flavia The Bloch constant of bounded harmonic mappings. **90k:31002**
Córdova Y., Antonio (*with* Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. **90h:30013**
Dubinin, V. N. A separating transformation of domains, and problems on extremal decomposition. (Russian) **90c:30006**
Duren, P. L. *see* **Andreev, V. V., 90c:30026**
FitzGerald, Carl H. An extremal problem for harmonic functions. **90c:31001**
Hu, Ke The successive coefficients of univalent functions. **90c:30028**
Nishimoto, Katsuyuki (*with* Owa, Shigeyoshi) A remark on p-valently α-convex functions. **90e:30016**
Owa, Shigeyoshi *see* **Nishimoto, Katsuyuki, 90e:30016**
Qiu, Song Liang Comment: "On the K-quasiconformal covering problem in space" [Hunan Daxue Xuebao **13** (1986), no. 3, 222–230; MR 88d:30030]. (Chinese. English summary) **90d:30065**
— The angular distortion of K-q.c. [mappings] of the unit disk onto itself. (Chinese summary) **90a:30066**
Reich, Edgar (*with* Shapiro, Harold S.) Teichmüller-type annihilators of L^1-analytic functions. **90k:30035**
Ren, Fu Yao Three conjectures of Reich on Teichmüller extremal quasiconformal mappings. (Chinese. English summary) **90m:30027**
Ruscheweyh, Stephan *see* **Córdova Y., Antonio, 90h:30013**
Shapiro, Harold S. *see* **Reich, Edgar, 90k:30035**
Strebel, Kurt On the extremality and unique extremality of certain Teichmüller mappings. **90e:30025**
Vamanamurthy, Mavina K. *see* **Anderson, G. D.; et al., 90e:30022**
Vuorinen, Matti *see* **Anderson, G. D.; et al., 90e:30022**
Walker, James Stephan An elementary proof of a theorem of Lelong. **90g:31001**

30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

Abu-Muhanna, Yusuf (*with* Hallenbeck, D. J.) Subordination families and extreme points. **90a:30072**
(Ahlfors, L. V.) *see* **Baernstein, Albert, II, 90h:30060**
Baernstein, Albert, II Ahlfors and conformal invariants. **90h:30060**
Elhosh, M. M. On subordination of the derivative of starlike functions. **90a:30073**
Fukui, Seiichi (*with* Owa, Shigeyoshi; Obradović, Milutin; Nunokawa, Mamoru) Certain functions which do not assume nonpositive real values. **90i:30038**
Hallenbeck, D. J. *see* **Abu-Muhanna, Yusuf, 90a:30072**
Manjini, R. *see* **Padmanabhan, K. S., 90h:30061**
Nunokawa, Mamoru *see* **Fukui, Seiichi; et al., 90i:30038** *and* **Owa, Shigeyoshi; et al., 90k:30040**
Obradović, Milutin A property of the class of functions whose derivative has a positive real part. **90j:30037**
— *see also* **Fukui, Seiichi; et al., 90i:30038** *and* **Owa, Shigeyoshi; et al., 90k:30040**
Owa, Shigeyoshi (*with* Obradović, Milutin; Nunokawa, Mamoru) On certain analytic functions and subordinations. **90k:30040**
— *see also* **Fukui, Seiichi; et al., 90i:30038**
Padmanabhan, K. S. (*with* Manjini, R.) Differential subordination and meromorphic functions. **90h:30061**

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Aziz, Abdul[1] Integral mean estimates for polynomials with restricted zeros. **90a:30012**
Bulboacă, Teodor Differential subordinations by convex functions. **90c:30011**
Carl, S. A maximum principle for a class of generalized analytic functions. **90d:30127**
Colonna, Flavia The Bloch constant of bounded harmonic mappings. **90k:31002**
Hallenbeck, D. J. (*with* MacGregor, T. H.) Radial growth and variation of bounded analytic functions. **90a:30090**
— (*with* Tkaczyńska, Katarzyna) Extreme points and support points of subordination families with p-valent majorants. **90j:30015**
Karunakaran, V. (*with* Ponnusamy, S.) Differential subordination and conformal mappings. I. **90h:30021**
— *see also* **Ponnusamy, S., 90i:30023**
Kwon, E. G. Fractional integration and the hyperbolic derivative. **90a:30096**
Liczberski, Piotr Jack's lemma for holomorphic mappings in C^n. (Russian and Polish summaries) **90a:32004**
Liu, Xiang Yang Applications of differential subordination to univalent functions. **90j:30020**
MacGregor, T. H. *see* **Hallenbeck, D. J., 90a:30090**
Marshall, Donald E. (*with* Sundberg, Carl) Harmonic measure and radial projection. **90b:30027**
Mishra, Akshaya Kumar Some applications of Schwarz lemma for operators. **90h:47018**
Mocanu, Petru T. On starlike images by Alexander integral. **90c:30016**
— Integral operators and starlike functions. **90d:30028**
Molęda, Alicja New classes of regular functions. (Russian and Polish summaries) **90c:30018**
Obradović, Milutin (*with* Owa, Shigeyoshi) A criterion for starlikeness. **90i:30020**
Overholt, Marius The extreme points of the set of Schwarzians of univalent functions. **90h:30056**
Owa, Shigeyoshi On starlike, convex and close-to-convex functions of complex order. **90b:30016**
— *see also* **Obradović, Milutin, 90i:30020**
Padmanabhan, K. S. (*with* Parvatham, R.; Radha, S.) On a Mocanu type generalization of the Kaplan class $K(\alpha,\beta)$ of analytic functions. **90f:30024**
Parvatham, R. *see* **Padmanabhan, K. S.; et al., 90f:30024**
Ponnusamy, S. (*with* Karunakaran, V.) Differential subordination and conformal mappings. **90i:30023**
— *see also* **Karunakaran, V., 90h:30021**
Radha, S. *see* **Padmanabhan, K. S.; et al., 90f:30024**
Ramachandra, K. An application of Borel-Carathéodory theorem. **90j:30034**
Royden, H. L. Hyperbolicity in complex analysis. **90h:32054**
Sakaguchi, Kōichi On convex functions. **90b:30017**
Shanmugam, T. N. Convolution and differential subordination. **90e:30018**
Sundberg, Carl *see* **Marshall, Donald E., 90b:30027**
Tkaczyńska, Katarzyna *see* **Hallenbeck, D. J., 90j:30015**
Younis, R. Support points of certain families of analytic functions. **90a:30051**
Zderkiewicz, J. On a generalized problem of M. Biernacki for subordinate functions. (Russian and Polish summaries) **90a:30052**

30C85 Capacity and harmonic measure in the complex plane [see also 31A15]

Bishop, Christopher J. (*with* Carleson, L.; Garnett, J. B.; Jones, Peter Wilcox) Harmonic measures supported on curves. **90d:30069**
Carleson, L. *see* **Bishop, Christopher J.; et al., 90d:30069**
Garnett, J. B. *see* **Bishop, Christopher J.; et al., 90d:30069**
Jones, Peter Wilcox *see* **Bishop, Christopher J.; et al., 90d:30069**
Overholt, Marius (*with* Schober, Glenn) Transfinite extent. **90m:30028**
Quine, J. R. On the harmonic measure of slit domains. **90h:30062**
Schober, Glenn *see* **Overholt, Marius, 90m:30028**
Shlyk, V. A. K-capacity and some of its applications in the theory of mappings with bounded distortion. **90k:30041**

Items with secondary classifications in 30C85

(Ahlfors, L. V.) *see* **Baernstein, Albert, II, 90h:30060**
Baernstein, Albert, II Ahlfors and conformal invariants. **90h:30060**
Dubinin, V. N. A separating transformation of domains, and problems on extremal decomposition. (Russian) **90c:30006**
Haliste, K. On an extremal configuration for capacity. **90i:31007**
Heinonen, Juha (*with* Martio, O.) Estimates for F-harmonic measures and Øksendal's theorem for quasiconformal mappings. **90c:30035**
Jenkins, J. A. On quasiconformal mappings with given boundary values. **90b:30024**
Jones, Peter Wilcox (*with* Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. **90j:31001**
Lopes, Artur Oscar A note on δ-equilibrium measures for rational maps. **90i:31008**
Makarov, N. G. Probability methods in the theory of conformal mappings. (Russian) **90k:30008**
Marshall, Donald E. (*with* Sundberg, Carl) Harmonic measure and radial projection. **90b:30027**
Martio, O. Sets of zero elliptic harmonic measures. **90i:31009**
— *see also* **Heinonen, Juha, 90c:30035**
Rohde, S. On an estimate of Makarov in conformal mapping. **90h:30022**
Stahl, Herbert On the convergence of generalized Padé approximants. **90i:30063**
Sundberg, Carl *see* **Marshall, Donald E., 90b:30027**
Wolff, Thomas H. *see* **Jones, Peter Wilcox, 90j:31001**

30C99 None of the above, but in this section

Bonk, M. (*with* Wirths, K.-J.) Über Häufungsstellen stationärer Punkte. [On the limiting points of stationary points] **90i:30039**
Hoy, Erich Area theorems and Fredholm eigenvalues. **90d:30070**
Hurri, Ritva Poincaré domains in $\mathbf{R}^n$. **90a:30074**
Nolder, Craig A. (*with* Oberlin, Daniel M.) Moduli of continuity and a Hardy-Littlewood theorem. **90d:30071**
Oberlin, Daniel M. *see* **Nolder, Craig A., 90d:30071**

Smith, Wayne Stewart (*with* Stegenga, David A.) Poincaré domains in the plane. **90c:30038**
Stegenga, David A. *see* **Smith, Wayne Stewart, 90c:30038**
Wirths, K.-J. *see* **Bonk, M., 90i:30039**

Items with secondary classifications in 30C99

Bezkrovnyĭ, Yu. D. Some properties of matrix polynomials and Faber series. (Russian) **90b:30002**
Lounesto, Pertti (*with* Springer, Arthur) Möbius transformations and Clifford algebras of Euclidean and anti-Euclidean spaces. **90d:30131**
Sekigawa, Hisao A theorem on the limit sets of quasiconformal deformations of infinitely generated Fuchsian groups of the first kind. **90h:30108**
Springer, Arthur *see* **Lounesto, Pertti, 90d:30131**
Stephenson, Kenneth Concerning the Gross star theorem. **90c:30045**
Yamashita, Shinji Meromorphic Lipschitz functions. **90a:30093**

30Dxx Entire and meromorphic functions, and related topics

Yoshino, Kunio On Carlson's theorem for holomorphic functions. **90i:30040**

30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34A20, 39–XX]

Azarina, Yu. V. Invariant analytic curves for entire functions. **90j:30038**
Baker, I. N. Iteration of entire functions: an introductory survey. **90d:30072**
— (*with* Bhattacharyya, Prodipeswar) On a class of nonembeddable entire functions. **90j:30039**
Bergweiler, Walter On the fix-points of composite functions. **90m:30029**
Bhattacharyya, Prodipeswar *see* **Baker, I. N., 90j:30039**
Borelli Forti, Costanza (*with* Forti, Gian Luigi) On entire functions additive on graphs. **90h:30063**
Borwein, J. M. (*with* Borwein, P. B.) On the mean iteration $(a,b) \leftarrow ((a+3b)/4, (\sqrt{ab}+b)/2)$. **90a:30075**
Borwein, P. B. *see* **Borwein, J. M., 90a:30075**
Branner, Bodil (*with* Hubbard, John H.) The iteration of cubic polynomials. I. The global topology of parameter space. **90d:30073**
Cheng, Jiu Yi On the Julia set of the polynomial $f(z) = pz + z^m$ with p real. **90d:30074**
Erëmenko, A. È. Some functional equations connected with the iteration of rational functions. (Russian) **90m:30030**
Fenyő, I. (*with* Paganoni, L.) A functional equation which characterizes the Jacobian $\mathrm{sn}(z,k)$ functions. (Italian summary) **90b:30028**
— (*with* Paganoni, L.) A functional equation from the theory of Jacobian elliptic functions. (Italian. English summary) **90d:30075**
Flexor, Marguerite (*with* Sentenac, Pierrette) Algorithmes de Newton généralisés. (English summary) [Generalized Newton algorithms] **90d:30076**
Forti, Gian Luigi *see* **Borelli Forti, Costanza, 90h:30063**
Haruki, H. An improvement of the Nevanlinna-Pólya theorem. **90a:30076**
Heins, Maurice A theorem of Wolff-Denjoy type. **90d:30077**
Hua, Xin Hou On the primality and factorization of exponential functions. (Chinese summary) **90g:30027**
Hubbard, John H. *see* **Branner, Bodil, 90d:30073**
Jones, William B. (*with* Thron, W. J.) Contraction of the Schur algorithm for functions bounded in the unit disk. **90i:30041**
Levin, Genadiĭ Mironovich On the theory of iterations of polynomial families in the complex plane. (Russian) **90j:30040**
Li, Bao Qin (*with* Song, Guo Dong[1]) On Goldbach problem concerning factorization of meromorphic functions. **90m:30031**
Liao, Liang Wen (*with* Song, Guo Dong[1]) Existence of a prime entire function of finite order whose even powers are not pseudoprime. (Chinese. English summary) **90f:30035**
Paganoni, L. *see* **Fenyő, I., 90b:30028** *and* **90d:30075**
Perko, Richard Some remarks on a generalization of the Jabotinsky equation. **90j:30041**
Pittnauer, Franz Ein elementarer Beweis eines Faktorisierungssatzes für ganze Funktionen. [An elementary proof of a factorization theorem for entire functions] **90m:30032**
Qiu, Wei Yuan On the construction of convergent iterative sequences of polynomials. **90i:30042**
Reich, Ludwig On families of commuting formal power series. **90k:30042**
Segal, S. L. Iterative characterizations of powers and exponentials. **90j:30042**
Sentenac, Pierrette *see* **Flexor, Marguerite, 90d:30076**
Sibuya, Y. Nontrivial entire solutions of the functional equation $f(\lambda) + f(\omega\lambda)f(\omega^{-1}\lambda) = 1$, $\omega^5 = 1$. **90c:30039**
Singh, Anand Prakash A note on right factor of an entire function. **90i:30043**
Song, Guo Dong[1] (*with* Yang, Chung-chun) Research problems in factorization theory of entire and meromorphic functions. **90h:30064**
— *see also* **Liao, Liang Wen, 90f:30035** *and* **Li, Bao Qin, 90m:30031**
Thron, W. J. *see* **Jones, William B., 90i:30041**
Urabe, Hironobu (*with* Yang, Chung-chun) Uniquely factorizable entire functions under composition. **90d:30078**
Wang, Shan Zhu (*with* Yang, Yu Zhen) On primality of the product of a polynomial and a periodic exponential function. (Chinese. English summary) **90k:30043**
Yang, Chung-chun Some aspects of factorization theory—a survey. **90d:30079**
— *see also* **Urabe, Hironobu, 90d:30078** *and* **Song, Guo Dong[1], 90h:30064**
Yang, Yu Zhen *see* **Wang, Shan Zhu, 90k:30043**
Zheng, Jian Hua On permutability of periodic entire functions. **90d:30080**

Items with secondary classifications in 30D05

Abate, Marco Common fixed points of commuting holomorphic maps. **90k:32074**
Baker, I. N. Infinite limits in the iteration of entire functions. **90e:58070**
Barnsley, Michael F. (*with* Hardin, D. P.) A Mandelbrot set whose boundary is piecewise smooth. **90m:58100**
Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] **90c:11015**
Bogatyĭ, S. A. Local indices of iterations of a holomorphic mapping. **90h:58046**
Bonk, M. (*with* Wirths, K.-J.) Über Häufungsstellen stationärer Punkte. [On the limiting points of stationary points] **90i:30039**
Chojnacki, Wojciech On some holomorphic dynamical systems. **90a:58093**
Daróczy, Zoltán (*with* Kátai, Imre) On a functional equation with polynomials. **90b:3901**
Denker, Manfred (*with* Seck, Christoph) A short proof of a theorem of Ruelle. **90m:5810**
Devaney, Robert L. (*with* Keen, Linda) Dynamics of maps with constant Schwarzian derivative. **90b:58122**
— (*with* Keen, Linda) Dynamics of tangent. **90e:58093**
— (*with* Keen, Linda) Dynamics of meromorphic maps: maps with polynomial Schwarzian derivative. **90e:58071**
Doual, Nasser (*with* Howland, James L.; Vaillancourt, Rémi) Global iterative solutions of elementary transcendental equations. **90m:65099**
Erëmenko, A. È. (*with* Levin, Genadiĭ Mironovich) Periodic points of polynomials. (Russian) **90m:58102**
Gehring, F. W. (*with* Martin, G. J.) Iteration theory and inequalities for Kleinian groups. **90k:30086**
Gross, Fred (*with* Osgood, Charles F.) A simpler proof of a theorem of Steinmetz. **90i:30047**
von Haeseler, F. (*with* Peitgen, Heinz-Otto) Newton's method and complex dynamical systems. **90a:58102**
Handler, Ivan (*with* Kauffman, Louis H.; Sandin, Dan) On crossing the boundary of the Mandelbrot set. **90c:58084**
Hardin, D. P. *see* **Barnsley, Michael F., 90m:58100**
Howland, James L. *see* **Doual, Nasser; et al., 90m:65099**
(Hustad, Otte) *see* **Peitgen, Heinz-Otto, 90i:58088**
Jürgens, Hartmut *see* **Peitgen, Heinz-Otto, 90i:58088**
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Kauffman, Louis H. *see* **Handler, Ivan; et al., 90c:58084**
Keen, Linda Dynamics of holomorphic self-maps of $\mathbf{C}^*$. **90e:58075**
— *see also* **Devaney, Robert L., 90b:58122; 90e:58071** *and* **90e:58093**
Lakhtakia, Akhlesh (*with* Lakhtakia, Mercedes N.) Ramanujan and the Julia set of the iterated exponential map. **90a:58082**
Lakhtakia, Mercedes N. *see* **Lakhtakia, Akhlesh, 90a:58082**
Levin, Genadiĭ Mironovich *see* **Erëmenko, A. È., 90m:58102**
Li, Wen Rong (*with* Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) **90h:39014**
Lopes, Artur Oscar The complex potential generated by the maximal measure for a family of rational maps. **90c:58099**
Ma, Li Zhi (*with* Yang, Chung-chun) On factorization of a certain class of entire functions. **90k:30050**
Martin, G. J. *see* **Gehring, F. W., 90k:30086**
Milnor, John Self-similarity and hairiness in the Mandelbrot set. **90c:58086**
Nauenberg, Michael (*with* Schellnhuber, H. J.) Analytic evaluation of the multifractal properties of a Newtonian Julia set. **90b:58183**
Nersesyan, Ashot A. Decomposition of functions that can be approximated by analytic functions. (Russian. English and Armenian summaries) **90f:30048**
Nie, Fu Sheng A note on an extremal identity. (Chinese) **90h:30004**
Osgood, Charles F. *see* **Gross, Fred, 90i:30047**
Paganoni, L. (*with* Paganoni Marzegalli, Stefania) Holomorphic solutions of an inhomogeneous Cauchy equation. **90e:39013**
Paganoni Marzegalli, Stefania Functional equations associated with Jacobian elliptic functions. (Italian. English summary) **90b:33006**
— *see also* **Paganoni, L., 90e:39013**
Peitgen, Heinz-Otto (*with* Prüfer, M.; Schmitt, Klaus) Global aspects of the continuous and discrete Newton method: a case study. **90d:58068**
— (*with* Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian. English summary) **90i:58088**
— *see also* **von Haeseler, F., 90a:58102**
Peng, Shou Li Inverse itinerary sequences and Hausdorff dimensions of disconnected Julia set. **90b:58127**
Petitot, Jean Nouveaux aspects de la méthode de Newton pour la détermination des racines. [New aspects of Newton's method for finding roots] **90g:58072**
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Qiao, Jian Yong The value distribution of entire functions of finite order. **90m:30039**
Sandin, Dan *see* **Handler, Ivan; et al., 90c:58084**
Saupe, Dietmar Discrete versus continuous Newton's method: a case study. **90e:58096**
Scharm, Rolf On the factorization of functions bounded and analytic in a half plane. **90d:30101**
Schellnhuber, H. J. *see* **Nauenberg, Michael, 90b:58183**
Schmieder, Gerald A characterization of Jordan domains in terms of conformal automorphisms. **90f:30010**
Schmitt, Klaus *see* **Peitgen, Heinz-Otto; et al., 90d:58068**
Seck, Christoph *see* **Denker, Manfred, 90m:58101**
Shishikura, Mitsuhiro On complex dynamical systems on the Riemann sphere. (Japanese) **90b:58129**
Si, Jian Guo *see* **Li, Wen Rong, 90h:39014**
Sullivan, Dennis Quasiconformal homeomorphisms in dynamics, topology, and geometry. **90a:58160**
Tortrat, Pierre Sur la composition des polynômes. [On the composition of polynomials] **90f:12002**
Ushiki, Shigehiro Quasiconformal surgery on doubly attractive cycles. **90d:58086**
Vaillancourt, Rémi *see* **Doual, Nasser; et al., 90m:65099**
Van Damme, Ruud On the dimension of a part of the Mandelbrot set. **90j:58114**
Wirths, K.-J. *see* **Bonk, M., 90i:30039**
Yang, Chung-chun *see* **Ma, Li Zhi, 90k:30050**

30D10 Representations of entire functions by series and integrals

Golightly, George O. Coefficients in sine series expansions of special entire functions. **90a:30077**
Juneja, O. P. (*with* Srivastava, G. S.) A note on entire Dirichlet series of perfectly regular growth. **90a:30078**
Karimov, Z. Sh. Estimation of an entire function defined by a Dirichlet series with sparse exponents. (Russian) (*see* **90d:41001**)
Kasana, H. S. (*with* Prasad, Govind) Maximum term and its rank of an entire Dirichlet series. **90h:30065**
Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. **90m:30033**
Lyubarskiĭ, Yu. I. The Paley-Wiener theorem for convex sets. **90b:30029**
Prasad, Govind *see* **Kasana, H. S., 90h:30065**
Rizvi, M. I. *see* **Srivastava, S. N., 90a:30079**
Safin, R. R. Representation of entire functions by generalized series of exponentials. (Russian) (*see* **90d:41001**)
Sharma, Poonam On the geometric means of an entire Dirichlet series of order (R) zero. **90g:30028**
Srivastava, G. S. *see* **Juneja, O. P., 90a:30078**
Srivastava, S. N. (*with* Rizvi, M. I.) On the geometric means of an entire function represented by Dirichlet series. **90a:30079**
Sun, Dao Chun *see* **Yu, Jia Rong, 90h:30066**
Yu, Jia Rong (*with* Sun, Dao Chun) On the distribution of values of random Dirichlet series. I. **90h:30066**

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Gil′mutdinov, R. Z. Expansion of entire functions of several complex variables in quasi-power bases. (Russian) (*see* **90d:41001**)
McDonald, John N. An extreme absolutely continuous RP-measure. **90k:32005**
Wu, Min On the growth of entire functions defined by gap Dirichlet series. (Chinese) (Not in MR)

30D15 Special classes of entire functions and growth estimates

Agrawal, Purshottam Narain *see* **Kasana, H. S.; et al., 90c:30041**
Ao, Hai Long The growth of the composition of an entire function and a meromorphic function. (Chinese. English summary) **90k:30044**
Avetisyan, A. E. Entire functions of order ρ $(1 < \rho < 2)$. **90m:30034**
Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. [Recognizability criterion for analytic functions and arithmetical entire functions] **90b:30030**
Bergweiler, Walter Order and lower order of composite meromorphic functions. **90f:30036**
Bernal, Luis G. A generalized convergence exponent of a complex sequence. (Spanish. English summary) **90d:30081**
Boĭchuk, V. S. Simple construction of an entire function with a given indicator with respect to a given entire proximate order. (Russian) **90a:30080**
Gaĭsin, A. M. The growth of a function, represented by a Dirichlet series, on a ray. (Russian) (*see* **90d:41001**)
Gal′, Yu. M. *see* **Sheremeta, M. N., 90g:30029**
Govil, N. K. (*with* Jain, Vinod Kumar) An integral inequality for entire functions of exponential type. (Russian and Polish summaries) **90h:30067**
Grishin, A. F. (*with* Sodin, M. L.) Growth on a ray, distribution of roots by arguments of an entire function of finite order, and a uniqueness theorem. (Russian) **90c:30040**
Hwang, Jun Shung On uniqueness theorems for entire functions tending to zero along disjoint arcs. **90d:30082**
Jain, Vinod Kumar *see* **Govil, N. K., 90h:30067**
Juneja, O. P. *see* **Kapoor, G. P.; et al., 90j:30043**
Kapoor, G. P. (*with* Juneja, O. P.; Patel, Jagannath) Growth of entire functions with some univalent Gel′fond-Leont′ev derivatives. **90j:30043**
Kasana, H. S. (*with* Agrawal, Purshottam Narain; Singh, M. P.) The growth of coefficients of entire Dirichlet series and its derivatives. **90c:30041**
— On the coefficients of entire functions with index-pair (p, q). **90a:30081**
Khabibullin, B. N. On the growth of entire functions of exponential type along the imaginary axis. (Russian) **90j:30044**
— Growth of entire functions of exponential type along the imaginary axis. **90a:30082**
Khan, Abdul Hakim *see* **Khan, Mumtaz Ahmad, 90h:30068**
Khan, Mumtaz Ahmad (*with* Khan, Abdul Hakim) An algebraic study of a class of integral functions. **90h:30068**
Kumar, Naresh (*with* Srivastava, G. S.) The mean values of real part of entire functions having index pair (p, q). **90d:30083**
Lahiri, Indrajit Growth of composite integral functions. **90k:30045**
Mera, Ruben N. Generalization of a classical theorem of Pólya and Szegő. **90b:30031**
Patel, Jagannath *see* **Kapoor, G. P.; et al., 90j:30043**
Rahman, Q. I. (*with* Schmeisser, G.) L^p inequalities for entire functions of exponential type. **90k:30046**
Rizvi, S. R. H. Interpolation series and approximation of entire functions. **90b:30032**
Salimov, F. G. The mean square value of entire functions that are represented by multiple Dirichlet series. (Russian. English and Azerbaijani summaries) **90h:30069**
Schmeisser, G. *see* **Rahman, Q. I., 90k:30046**
Sheil-Small, T. On the zeros of $L' + L^2$ for certain rational functions L. **90c:30042**
Sheremeta, M. N. On the growth of analytic functions. (Ukrainian. Russian summary) (Not in MR)
— Analogues of the Borel theorem for analytic functions. (Ukrainian. Russian summary) (Not in MR)
— (*with* Gal′, Yu. M.) A class of entire functions. (Russian. English summary) **90g:30029**
Singh, M. P. *see* **Kasana, H. S.; et al., 90c:30041**
Skaskiv, O. B. Growth of an entire function that satisfies an nth-order differential equation with exponential coefficients and that can be represented by the Dirichlet series. (Ukrainian. Russian summary) **90k:30047**
— Growth of entire Dirichlet series of Riesz zero order. (Ukrainian. Russian summary) (Not in MR)
Sodin, M. L. *see* **Grishin, A. F., 90c:30040**
Srivastava, G. S. *see* **Kumar, Naresh, 90d:30083**
Steinmetz, Norbert Exceptional values of solutions of linear differential equations. **90i:30044**
Tariq, Q. M. An inequality for entire functions of exponential type. **90h:30070**
Wu, Min On the growth of entire functions defined by gap Dirichlet series. (Chinese) (Not in MR)
Yang, Le Growth and angular distribution of entire functions. **90m:30035**

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Charris Castañeda, Jairo A. (*with* Huérfano, Ruth S.) On some spaces of analytic functions and their duality relations. **90m:46038**
Csordas, G. (*with* Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. **90b:30005**
Hayman, W. K. Ahlfors' theorem on asymptotic values and some developments from it. **90d:30084**
Huérfano, Ruth S. *see* **Charris Castañeda, Jairo A., 90m:46038**
Juneja, O. P. (*with* Srivastava, G. S.) A note on entire Dirichlet series of perfectly regular growth. **90a:30078**
Kasana, H. S. Some properties of proximate orders for analytic functions. **90j:30002**
Korevaar, J. Interpolation by entire functions in **C**—another look. **90a:30098**
Kumar, Naresh (*with* Srivastava, G. S.) On the coefficients of analytic functions of fast growth. **90a:30008**
Li, Bao Qin Remarks on a result of Hayman. **90a:30087**
Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. **90m:30033**
Patil, S. J. *see* **Sarangi, S. M., 90b:30035**
Sarangi, S. M. (*with* Patil, S. J.) On deficient values of meromorphic functions. **90b:30035**
Singh, Anand Prakash A note on exceptional value Picard for simple and double zeros. **90a:30088**
Srivastava, G. S. *see* **Kumar, Naresh, 90a:30008** *and* **Juneja, O. P., 90a:30078**
Tornehave, Hans On the zeros of entire almost periodic functions. **90m:30008**
Tovmasyan, N. E. Well-posed boundary value problems for the Carleman-Vekua equation in a half-plane. (Russian) **90e:35059**
Varga, Richard S. *see* **Csordas, G., 90b:30005**
Zalik, R. A. A new inequality for entire functions. **90h:30071**

30D20 Entire functions, general theory

Abi-Khuzam, Faruk F. Maximum modulus convexity and the location of zeros of an entire function. **90c:30043**
Abuarabi, Sh. (*with* Sheremeta, M. N.) Entire functions of bounded l-M-index. (Russian. English summary) **90k:30048**
Azarin, V. S. (*with* Giner, V. B.) A criterion for the existence of an entire function with a given limit set. (Russian. English summary) **90c:30044**
Bhave, N. S. A generalised Cauchy estimate. **90a:30083**
Galimov, I. S. Approximation of solutions of an equation of infinite order by means of elementary solutions. (Russian) **90b:30033**
Gil′mutdinova, A. Ya. Sequences of entire functions with "big" gaps in the zeros. (Russian) (*see* **90d:41001**)
Giner, V. B. *see* **Azarin, V. S., 90c:30044**
Hayman, W. K. Ahlfors' theorem on asymptotic values and some developments from it. **90d:30084**
Khom″yak, M. M. Analogues of the Wiman theorem for Dirichlet series that define entire functions of finite lower R-order. (Ukrainian. Russian summary) (Not in MR)
Kim, Young-One A proof of the Pólya-Wiman conjecture. **90k:30049**
Leont′eva, L. A. A generalized derivative in an arbitrary domain. **90i:30045**
Ma, Li Zhi (*with* Yang, Chung-chun) On factorization of a certain class of entire functions. **90k:30050**
Martirosyan, V. A. Uniqueness theorems for entire functions in terms of their Taylor coefficients. (Russian. English and Armenian summaries) **90j:30045**
Mullaev, M. U. A space, conjugate to $E^p(\mathscr{D})$ $(1 \le p < \infty)$, and a simple generalization of the Wiener-Paley theorem. (Russian) (*see* **90d:41001**)
Mustafin, R. F. Representation of the solution of an infinite-order equation in the form of the limit of a sequence of partial sums of a series of elementary solutions. (Russian) (*see* **90d:41001**)
Sheil-Small, T. On the zeros of the derivatives of real entire functions and Wiman's conjecture. **90a:30084**
Sheremeta, M. N. *see* **Abuarabi, Sh., 90k:30048**
Shevtsov, V. I. Systems of equations of infinite order. (Russian) (*see* **90d:00046**)
Somasundaram, D. (*with* Thamizharasi, R.) The functions of bounded index as a subspace of the space of entire functions represented by Dirichlet series with given exponent. **90j:30046**
Stephenson, Kenneth Concerning the Gross star theorem. **90c:30045**
Sumovs′kiĭ, M. M. Oscillating proximate orders. (Ukrainian. Russian summary) **90k:30051**
Thamizharasi, R. *see* **Somasundaram, D., 90j:30046**
Veselovskaya, O. V. On the lower order of an entire function. (Ukrainian. Russian summary) (Not in MR)
Xia, Xiang Gen *see* **Zhou, Xing Wei, 90m:30036**
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Zalik, R. A. A new inequality for entire functions. **90h:30071**
Zhou, Xing Wei (*with* Xia, Xiang Gen) Computability of entire functions. **90m:30036**

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Baker, I. N. (*with* Bhattacharyya, Prodipeswar) On a class of nonembeddable entire functions. **90j:30039**
Bhattacharyya, Prodipeswar *see* **Baker, I. N., 90j:30039**
Dryanov, D. P. On a Gaussian quadrature formula for entire functions of exponential type. **90h:65033**
Gao, Shi An On the complex oscillation of solutions of nonhomogeneous linear differential equations with polynomial coefficients. **90g:34033**

Govil, N. K. (*with* Jain, Vinod Kumar) An integral inequality for entire functions of exponential type. (Russian and Polish summaries) **90h:30067**

Ibragimov, F. I. *see* **Ibragimov, I. I., 90c:30002**

Ibragimov, I. I. (*with* Ibragimov, F. I.) Multiple completeness in the sense of M. V. Keldysh of some systems of analytic functions. (Russian) **90c:30002**

Jain, Vinod Kumar *see* **Govil, N. K., 90h:30067**

Khadzhiĭski, Vanya On the best L_p-approximation on the real line by entire functions of exponential type. (Bulgarian. English and Russian summaries) **90b:30046**

Kozitskiĭ, Yu. V. (*with* Mel′nik, N. O.) Eigenfunctions of infinite-order differential operators in a class of entire functions. (Russian) **90f:47067**

Kuzbekov, T. T. Generators in a ring of entire functions of exponential type. (Russian) (*see* **90d:41001**)

Lahiri, Indrajit Growth of composite integral functions. **90k:30045**

Mel′nik, N. O. *see* **Kozitskiĭ, Yu. V., 90f:47067**

Patil, S. J. *see* **Sarangi, S. M., 90b:30035**

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Rahman, Q. I. (*with* Schmeisser, G.) On a Gaussian quadrature formula for entire functions of exponential type. **90i:65046**

Rossi, John The Tsuji characteristic and real zeros of solutions of second order ordinary differential equations. **90b:34007**

Sarangi, S. M. (*with* Patil, S. J.) On deficient values of meromorphic functions. **90b:30035**

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Segal, S. L. Iterative characterizations of powers and exponentials. **90j:30042**

Sheil-Small, T. On the zeros of $L' + L^2$ for certain rational functions L. **90c:30042**

Singh, Anand Prakash On a class of slowly changing functions. **90e:26005**

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— (*with* Stepanets, N. I.) Approximation by entire functions in the mean. (Russian) **90e:42009b**

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Urbanik, K. Analytic stochastic processes. **90k:60103**

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Wallisser, R. V. On entire functions assuming integer values in a geometric sequence. **90j:11067**

Yang, Le Growth and angular distribution of entire functions. **90m:30035**

Zheng, Jian Hua On permutability of periodic entire functions. **90d:30080**

30D30 Meromorphic functions, general theory

Bogucki, Zbigniew Sur la courbure des lignes de niveau et de leurs trajectoires orthogonales dans une famille de fonctions méromorphes et convexes. (Russian and Polish summaries) [On the curvature of level curves and their orthogonal trajectories in a family of meromorphic and convex functions] **90g:30030**

Jin, Lu[1] Angular distributions of entire functions. (Chinese) **90f:30037**

Kondratyuk, A. A. Linear combinations of meromorphic functions of completely regular growth. (Ukrainian. Russian summary) **90j:30047**

Lahiri, Indrajit Generalised order of the derivative of a meromorphic function. **90a:30085**

Makhmutov, Sh. A. Meromorphic functions that have uniform growth of the characteristic. (Russian) (*see* **90m:00040**)

Mokhon′ko, A. Z. Meromorphic solutions of first-order differential equations. **90d:30085**

Yamashita, Shinji Les fonctions méromorphes s'exprimant comme quotients de fonctions holomorphes, bornées et Dirichlet-finies. (English summary) [Meromorphic functions expressed as quotients of holomorphic, bounded and Dirichlet-finite functions] **90d:30086**

Yang, Yu Zhen Two results on uniqueness theorems for entire functions and meromorphic functions. (Chinese. English summary) **90f:30038**

Yi, Hong Xun A note on the questions of multiple values and uniqueness of meromorphic functions. (Chinese. English summary) **90e:30027**

— Meromorphic functions with common preimages. (Chinese. English summary) **90b:30034**

— Meromorphic functions that share three values. (Chinese) **90f:30039**

— On the uniqueness of the family $\mathscr{F}$ of meromorphic functions. (Chinese. English summary) **90h:30072**

— On the theorem of Tumura-Clunie. **90d:30087**

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Ao, Hai Long Picard exceptional values of polynomials of meromorphic functions and their derivatives. (Chinese. English summary) **90a:30086**

— The growth of the composition of an entire function and a meromorphic function. (Chinese. English summary) **90k:30044**

Aouf, M. K. On the coefficients of some meromorphic classes of order α and type β. (Italian summary) **90g:30017**

Bergweiler, Walter Order and lower order of composite meromorphic functions. **90f:30036**

Bézivin, J.-P. Quotients de fonctions entières et quotients de Hadamard de séries formelles. (English summary) [Quotients of entire functions and Hadamard quotients of formal power series] **90k:30002**

Chevskiĭ, V. M. The distribution of the zeros of some meromorphic functions. (Russian) **90j:30008**

Ganigi, M. D. *see* **Uralegaddi, B. A., 90f:30029**

Goluzina, E. G. Sets of values of initial coefficients in a class of meromorphic functions with bounded boundary rotation. (Russian) **90a:30053**

Jongen, H. T. (*with* Jonker, P.; Twilt, F.) The continuous, desingularized Newton method for meromorphic functions. **90b:58232**

Jonker, P. *see* **Jongen, H. T.; et al., 90b:58232**

Landau-Treisner, Laurellen (*with* Livingston, Albert E.) Weakly close-to-convex meromorphic functions. **90i:30018**

Livingston, Albert E. *see* **Landau-Treisner, Laurellen, 90i:30018**

Ma, Li Zhi Estimate of order for meromorphic functions. (Chinese) **90j:30049**

Reczek, Krzysztof An extension of the Batyrev theorem. **90k:30078**

Ru, Min A general theorem on the total number of deficient values for a class of meromor phic functions. (Chinese) **90h:30077**

Tammi, Olli Some coefficient estimations in the class Σ_b' of meromorphic univalent functions. **90a:30054**

Twilt, F. *see* **Jongen, H. T.; et al., 90b:58232**

Uralegaddi, B. A. (*with* Ganigi, M. D.) Meromorphic multivalent functions with positive coefficients. **90f:30029**

Xiao, Xiu Zhi The Nevanlinna characteristic function of meromorphic solutions to algebra differential equations. (Chinese. English summary) (Not in MR)

Yamashita, Shinji Meromorphic Lipschitz functions. **90a:30093**

30D35 Distribution of values, Nevanlinna theory

(Ahlfors, L. V.) *see* **Drasin, David, 90k:30052**

Ao, Hai Long Borel sets of entire functions. **90d:30088**

— Picard exceptional values of polynomials of meromorphic functions and their derivative (Chinese. English summary) **90a:30086**

Barsegyan, G. A. Distributions of the roots of meromorphic functions. (Russian) **90d:30089**

Bergweiler, Walter On the Nevanlinna characteristic of a composite function. **90d:30090**

Cai, Jian Fixed points of entire functions. (Chinese. English summary) (Not in MR)

Dai, Chong Ji (*with* Jin, Lu[1]) Meromorphic function whose derivative has largest sum of deficiencies. **90c:30046**

— *see also* **Wang, Xiao Mao, 90c:30047**; **Ye, Zhuan, 90c:30051**; **Li, Bao Qin, 90h:30074** *and* **Jin, Lu[1], 90i:30048**

Drasin, David The impact of Lars Ahlfors's work in value-distribution theory. **90k:30052**

Dzhrbashyan, A. M. Classes of functions of bounded type in a half-plane, a uniqueness theorem and a Phragmén-Lindelöf-type theorem. **90e:30028**

Erëmenko, A. È. A new proof of the Drasin theorem on meromorphic functions of finite order with a maximal sum of defects. I. (Russian) **90h:30073**

— A new proof of the Drasin theorem on meromorphic functions of finite order with a maximal sum of defects. II. (Russian) **90i:30046**

Gol′dberg, A. A. Distribution of values of meromorphic functions with poles that tend to a system of rays. **90e:30029**

Gong, Xiang Hong The homogeneous differential polynomials and angular distribution of meromorphic functions. (Chinese) **90k:30053**

— (*with* Gu, Yong Xing) On Hayman directions. **90k:30054**

Gross, Fred (*with* Osgood, Charles F.) Diophantine approximation to the value distributio theory of meromorphic functions. **90m:30037**

— (*with* Osgood, Charles F.) A simpler proof of a theorem of Steinmetz. **90i:30047**

Gu, Yong Xing *see* **Gong, Xiang Hong, 90k:30054**

Ishizaki, Katsuya On some generalizations of theorems of Toda and Weissenborn to differential polynomials. **90j:30048**

Jin, Lu[1] (*with* Dai, Chong Ji) A conjecture of F. Nevanlinna concerning deficient functions I. (Chinese) **90i:30048**

— *see also* **Dai, Chong Ji, 90c:30046**

Kabaila, Vytenis P. On the second Nevanlinna theorem without exceptional intervals. (Russian. English and Lithuanian summaries) **90k:30055**

Kim, Sang Moon Meromorphic functions of order zero that share four values. **90m:30038**

Köhler, Lothar Meromorphic functions sharing zeros and poles and also some of their derivatives sharing zeros. **90f:30040**

(Kulkarni, V. N.) *see* **Yang, Lian Zhong, 90c:30050**

Langley, J. K. The Tsuji characteristic and zeros of linear differential polynomials. **90k:30056**

Ławrynowicz, Julian (*with* Toppila, Sakari) On the connection between the Nevanlinna characteristics of an entire function and of its derivative. **90d:30091**

Li, Bao Qin Remarks on a result of Hayman. **90a:30087**

— (*with* Dai, Chong Ji) A.P. gaps of (b, d) type and modular distribution. (Chinese. English summary) **90h:30074**

Ma, Li Zhi Estimate of order for meromorphic functions. (Chinese) **90j:30049**

— *see also* **Zhuang, Qi Tai, 90d:30095**

Narayanan, K. A. (*with* Parthasarathy, R.) Exceptional values of meromorphic functions. **90e:30030**

Niino, Kiyoshi Some results on analytic mappings between two ultrahyperelliptic surfaces. **90d:30092**

Osgood, Charles F. *see* **Gross, Fred, 90i:30047** *and* **90m:30037**

Pang, Xue Cheng A discussion of the singular directions of meromorphic functions. (Chinese. English summary) **90d:30093**

Parthasarathy, R. (*with* Subba Rao, S.) Extension of a result of Hayman and exceptional values of meromorphic functions. **90h:30075**

— *see also* **Narayanan, K. A., 90e:30030**

Patil, Prakash M. *see* **Singh, Anand Prakash, 90j:30050**

Patil, S. J. *see* **Sarangi, S. M., 90b:30035**

Qiao, Jian Yong On orders and lower orders of a class of entire functions. (Chinese. English summary) **90h:30076**

— The value distribution of entire functions of finite order. **90m:30039**

Ru, Min A general theorem on the total number of deficient values for a class of meromorphic functions. (Chinese) **90h:30077**

— Some discussion on common Borel directions of meromorphic functions. (Chinese. English summary) **90h:30078**

Sarangi, S. M. (*with* Patil, S. J.) On deficient values of meromorphic functions. **90b:3003**

Shao, Min Juan Properties of meromorphic functions with sums of deficiencies. (Chinese. English summary) **90h:30079**

Singh, Anand Prakash A note on exceptional value Picard for simple and double zeros. **90a:30088**

— (*with* Patil, Prakash M.) Relative defects of homogeneous differential polynomials. **90j:30050**

— A glimpse into Nevanlinna's theory of meromorphic functions. **90k:30057**

(Singh, S. K.) *see* **Yang, Lian Zhong, 90c:30050**

Steinmetz, Norbert A uniqueness theorem for three meromorphic functions. **90a:30089**
Strochik, N. N. Asymptotic estimates for some integral means for meromorphic functions. II. **90i:30049**
Subba Rao, S. *see* **Parthasarathy, R., 90h:30075**
Sun, Dao Chun Borel points of one type of random exponential series. (Chinese. English summary) **90g:30031**
– (*with* Yu, Jia Rong) Sur la distribution des valeurs de certaines séries aléatoires de Dirichlet. II. (English summary) [On the distribution of values of certain random Dirichlet series. II] **90j:30051**
– Deficient values of random functions. (Chinese. English summary) **90k:30058**
Toppila, Sakari Some upper bounds for the spherical derivative. **90b:30036**
– *see also* **Lawrynowicz, Julian, 90d:30091**
Tu, Zhen Han Uniqueness theorems for meromorphic functions. (Chinese. English summary) (Not in MR)
Ueda, Hideharu On the zero-one-pole set of a meromorphic function. **90d:30094**
– On meromorphic functions with regions free of poles and zeros. **90m:30040**
Wang, Xiao Mao (*with* Dai, Chong Ji) On meromorphic function with maximum defect. **90c:30047**
Wu, Gui Rong Algebroid solutions to a class of higher-order algebraic differential equations. (Chinese) **90k:30059**
Yang, Le Some results on value distribution theory of entire and meromorphic functions. **90m:30041**
– Angular distribution of meromorphic functions in the unit disk. **90c:30048**
– Deficient values and Borel directions of entire functions. **90c:30049**
Yang, Lian Zhong On the relative quasidefects of meromorphic functions. (Chinese. English summary) **90h:30080**
– Comment: "Characteristic function of a meromorphic function and its derivative" [Ann. Polon. Math. **28** (1973), 123–133; MR **48** #4315] by S. K. Singh and V. N. Kulkarni. (Chinese) **90c:30050**
Ye, Zhuan (*with* Dai, Chong Ji) Nevanlinna inverse problem for deficient functions of finite order. (Chinese. English summary) **90c:30051**
Yi, Hong Xun On a theorem of Tumura and Clunie for a differential polynomial. **90b:30037**
– Deficiencies of differential polynomials. (Chinese) **90m:30042**
Yu, Jia Rong *see* **Sun, Dao Chun, 90j:30051**
Zabolotskiĭ, N. V. Some relations for Nevanlinna characteristics of an entire function of order $\rho < 1$. (Ukrainian. Russian summary) (Not in MR)
– Spherical derivative and Picard sets of entire functions. **90j:30052**
Zhang, Qing Cai On the singular directions of meromorphic functions. (Chinese) (Not in MR)
Zhang, Xiao Kuan On value distribution properties of Bloch functions. (Chinese. English summary) **90j:30053**
Zhang, Zai Li The Valiron deficiencies of meromorphic functions of finite order. (Chinese. English summary) **90h:30081**
Zhu, Jing Hao The inequality $\Sigma\delta^{1/3}(a(z), f) < +\infty$ for a meromorphic function f and its deficient function $a(z)$. (Chinese) (Not in MR)
Zhuang, Qi Tai (*with* Ma, Li Zhi) Generalization of a theorem of Edrei. **90d:30095**
– On the growth of a meromorphic function and of its differential polynomials. **90m:30043**

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Avetisyan, A. E. Entire functions of order ρ $(1 < \rho < 2)$. **90m:30034**
Chen, Wan Xi Defect relations for degenerate meromorphic maps. **90k:32079**
Dektyarev, I. M. Averaged defects of holomorphic curves and divisors with an excess defect value. **90h:32008**
Fujimoto, Hirotaka On the value distribution of the Gauss map of minimal surfaces in $\mathbf{R}^n$. (Japanese) **90f:53098**
Gundersen, Gary G. The deficiencies of meromorphic solutions of certain algebraic differential equations. **90m:34011**
Hà Huy Khoái (*with* My Vinh Quang) On p-adic Nevanlinna theory. **90e:11153**
Ishizaki, Katsuya Admissible solutions of higher order differential equations. **90j:34007**
Kim, Young-One A proof of the Pólya-Wiman conjecture. **90k:30049**
Kondratyuk, A. A. Linear combinations of meromorphic functions of completely regular growth. (Ukrainian. Russian summary) **90j:30047**
Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**
My Vinh Quang *see* **Hà Huy Khoái, 90e:11153**
Pittnauer, Franz Ein elementarer Beweis eines Faktorisierungssatzes für ganze Funktionen. [An elementary proof of a factorization theorem for entire functions] **90m:30032**
Schwick, Wilhelm Normality criteria for families of meromorphic functions. **90k:30061**
Shamoyan, F. A. Description of closed ideals in Nevanlinna-Dzhrbashyan algebras, and characterization of weakly cyclic elements of the algebra N^+. **90k:30093**
Sun, Dao Chun *see* **Yu, Jia Rong, 90h:30066**
Yang, Le Growth and angular distribution of entire functions. **90m:30035**
Yang, Yu Zhen Two results on uniqueness theorems for entire functions and meromorphic functions. (Chinese. English summary) **90f:30038**
Yi, Hong Xun Meromorphic functions with common preimages. (Chinese. English summary) **90b:30034**
– On zeros of differential polynomials. (Chinese. English summary) **90j:30010**
Yu, Jia Rong (*with* Sun, Dao Chun) On the distribution of values of random Dirichlet series. I. **90h:30066**
Zabolotskiĭ, N. V. Regularity of the growth of Nevanlinna characteristics of subharmonic functions. (Ukrainian. Russian summary) (Not in MR)

30D40 Cluster sets, prime ends, boundary behavior

Abu-Muhanna, Yusuf (*with* Lyzzaik, A. K.) The boundary behaviour of harmonic univalent maps. **90m:30044**
Airapetyan, G. M. Boundary values of functions that are generated by incomplete systems of rational fractions with fixed poles. **90h:30082**
Brinn, L. W. The rarity and dispersion of analytic functions with certain cluster sets. **90h:30083**
Carroll, T. F. A classical proof of Burdzy's theorem on the angular derivative. **90m:30045**
Hallenbeck, D. J. (*with* MacGregor, T. H.) Radial growth and variation of bounded analytic functions. **90a:30090**
He, Yong Xian The values of meromorphic functions and their boundary cluster set. (Chinese. English summary) **90h:30084**
Heins, Maurice A note concerning the lemma of Julia-Wolff-Carathéodory. **90d:30096**
Luh, Wolfgang Holomorphic monsters. **90a:30091**
Lyzzaik, A. K. *see* **Abu-Muhanna, Yusuf, 90m:30044**
MacGregor, T. H. *see* **Hallenbeck, D. J., 90a:30090**
Oganesyan, Zh. S. Cluster sets of equimorphic functions along tangent curves. (Russian) (*see* **90m:00040**)
Øksendal, Bernt A stochastic Fatou theorem for quasiregular functions. **90g:30032**
Pang, Xue Cheng Bloch's principle concerning the singular directions of meromorphic functions. (Chinese. English summary) **90k:30060**
Pu, De Qian The essential boundary points of analytic functions. **90i:30050**
— On boundary properties of analytic functions. **90c:30052**
Salimov, T. S. The A-integral and boundary values of analytic functions. **90a:30092**
Samokhin, M. V. Boundary behavior of analytic functions in domains of arbitrary connection. (Russian. Armenian summary) **90c:30053**
Shlyk, V. A. Interior continuation of regular functions and a problem of Kaufman. **90j:30054**
Sun, Dao Chun Necessary and sufficient conditions for Borel points. (Chinese. English summary) **90h:30085**
Yamashita, Shinji Meromorphic Lipschitz functions. **90a:30093**

Items with secondary classifications in 30D40

Aikawa, Hiroaki Harmonic functions having no tangential limits. **90h:31003**
Alexander, H. Remark on a lemma of Pommerenke. **90g:28015**
Azarin, V. S. (*with* Giner, V. B.) A criterion for the existence of an entire function with a given limit set. (Russian. English summary) **90c:30044**
Bañuelos, Rodrigo (*with* Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. **90i:30002**
Borichev, A. A. Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. **90d:30129**
Carmichael, Richard D. (*with* Mitrović, Dragiša) ★ Distributions and analytic functions. **90m:46072**
Earle, Clifford J. Angular derivatives of the barycentric extension. **90g:30004**
Emel′yanov, A. P. Boundary values of an integral of Cauchy type for the conformal mapping of the unit disk onto a star-shaped domain. (Russian) (*see* **90m:00040**)
Èminyan, O. M. Boundary singularities of spatial quasimeromorphic mappings along tangent paths. (Russian. Armenian summary) **90d:30059**
Falcón Rodríguez, Carlos A class of transformations with boundary correspondence. (Spanish. English summary) **90m:30025**
Giner, V. B. *see* **Azarin, V. S., 90c:30044**
Gomonov, S. A. Cluster sets of multivalued mappings of topological spaces. **90g:54011**
Krzyż, Jan G. Harmonic analysis and boundary correspondence under quasiconformal mappings. **90k:30034**
Makarov, N. G. Smooth measures and the law of the iterated logarithm. **90h:30007**
Malyutina, A. N. (*with* Paĭkov, V. I.) On the correspondence of boundaries for quasi-isometric mappings. (Russian) **90a:30063**
Mitrović, Dragiša *see* **Carmichael, Richard D., 90m:46072**
Moore, Charles N. *see* **Bañuelos, Rodrigo, 90i:30002**
Paĭkov, V. I. *see* **Malyutina, A. N., 90a:30063**
Pérez-González, F. (*with* Stray, Arne) Farrell and Mergelyan sets for H^p spaces $(0 < p < 1)$. **90m:30054**
Renggli, H. Remarks on the Picard theorem. **90a:30134**
Rudin, Walter Tangential H^∞-images of boundary curves. **90d:32011**
Stephenson, Kenneth Concerning the Gross star theorem. **90c:30045**
Stray, Arne *see* **Pérez-González, F., 90m:30054**
Tamrazov, P. M. Multidimensional contour-solid theorems. **90d:32004**
Vainio, Juhani V. On the type of sewing functions with a singularity. **90i:30035**
Vuorinen, Matti On Picard's theorem for entire quasiregular mappings. **90a:30069**

30D45 Normal functions, normal families

Aulaskari, Rauno (*with* Lappan, Peter) Some integral conditions involving the spherical derivative. **90c:30054**
Lappan, Peter *see* **Aulaskari, Rauno, 90c:30054**
Minda, David Yosida functions. **90d:30097**
Pang, Xue Cheng Normality conditions for differential polynomials. (Chinese) (Not in MR)
— *see also* **Xue, Guo Fen, 90i:30051**
Schwick, Wilhelm Normality criteria for families of meromorphic functions. **90k:30061**
Simushev, A. A. Criteria for the normality of quasimeromorphic mappings and of families of quasimeromorphic mappings. (Russian) (*see* **90m:00040**)
Xue, Guo Fen (*with* Pang, Xue Cheng) A criterion for normality of a family of meromorphic functions. (Chinese. English summary) **90i:30051**
Zhang, Qing Cai On normality of families of meromorphic functions. (Chinese) (Not in MR)

Items with secondary classifications in 30D45

Earle, Clifford J. Angular derivatives of the barycentric extension. **90g:30004**
Yang, Le Some results on value distribution theory of entire and meromorphic functions. **90m:30041**

30D50 Blaschke products, bounded characteristic, bounded functions, functions with positive real part

Chen, Tongwen (*with* Francis, Bruce A.) Spectral and inner-outer factorizations of rational matrices. **90d:30098**
Francis, Bruce A. *see* Chen, Tongwen, 90d:30098

Genin, Yves An introduction to the modern theory of positive functions and some of its today applications to signal processing, circuits and systems problems. **90m:30046**
Gevorkyan, I. M. *see* **Shamoyan, F. A., 90k:30063**
Hayman, W. K. (*with* Pommerenke, Ch.) On meromorphic functions with growth conditions. **90e:30031**
Hui, Stefen Y. Blaschke products and nonvanishing bounded analytic functions separating sequences. **90c:30055**
Jevtić, Miroljub A note on Blaschke products with zeroes in a nontangential region. **90d:30099**
Khavinson, S. Ya. Theory of factorization of single-valued analytic functions on compact Riemann surfaces with a boundary. **90m:30047**
Korenblum, Boris A sharper form of a theorem of Kolmogorov. **90e:30032**
Martin, N. F. G. On ergodic properties of restrictions of inner functions. **90c:30056**
Mocanu, Petru T. (*with* Popovici, Mihai; Ripeanu, Dumitru) Best bound for the argument of certain analytic functions with positive real. II. **90c:30057**
Noell, Alan V. (*with* Wolff, Thomas H.) On peak sets for Lip α classes. **90k:30062**
Oganisyan, I. V. *see* **Zakharyan, V. S., 90h:30086**
Ortel, Marvin (*with* Schneider, Walter J.) Analytic functions with rectifiable radial images. **90d:30100**
Pommerenke, Ch. *see* **Hayman, W. K., 90e:30031**
Popovici, Mihai *see* **Mocanu, Petru T.; et al., 90c:30057**
Ripeanu, Dumitru *see* **Mocanu, Petru T.; et al., 90c:30057**
Scharm, Rolf On the factorization of functions bounded and analytic in a half plane. **90d:30101**
Schneider, Walter J. *see* **Ortel, Marvin, 90d:30100**
Shamoyan, F. A. (*with* Gevorkyan, I. M.) Characterization of the rate of decrease of Fourier coefficients of functions of bounded form and the sharpening of R. Salinas's theorem. (Russian. Armenian summary) **90k:30063**
Wolff, Thomas H. *see* **Noell, Alan V., 90k:30062**
Zakharyan, V. S. An estimate for M. M. Dzhrbashyan's product. **90a:30094**
— (*with* Oganisyan, I. V.) Taylor coefficients of M. M. Dzhrbashyan's products $B_\alpha(z; z_k)$. **90h:30086**

Items with secondary classifications in 30D50

Alpay, Daniel (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**
Delsarte, Philippe (*with* Genin, Yves) A simple proof of Livingston's inequality for Carathéodory functions. **90c:30027**
Dyn, N. (*with* Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞. **90c:30062**
Dzhrbashyan, A. M. Classes of functions of bounded type in a half-plane, a uniqueness theorem and a Phragmén-Lindelöf-type theorem. **90e:30028**
— Theorems of Herglotz-Riesz type. **90h:30096**
Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. **90g:46075**
Fisher, S. D. Envelopes, widths, and Landau problems for analytic functions. **90b:30041**
Genin, Yves *see* **Delsarte, Philippe, 90c:30027**
Gohberg, I. (*with* Rubinstein, Sorin) Proper contractions and their unitary minimal completions. **90m:47007**
— *see also* **Alpay, Daniel, 90m:47006**
Hayashi, Mikihiro (*with* Nakai, Mitsuru) Point separation by bounded analytic functions of a covering Riemann surface. **90a:30141**
Katsnel'son, V. È. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) **90k:47030**
Lichtin, B. Erratum: "Generalized Dirichlet series and b-functions" [Compositio Math. **65** (1988), no. 1, 81–120; MR 89d:32030]. **90k:32050**
Ma, Wan Cang On the Kirwan conjecture for typically real meromorphic functions. **90d:30045**
Micchelli, Charles A. *see* **Dyn, N.; et al., 90c:30062**
Nakai, Mitsuru Valuations on meromorphic functions of bounded type. **90a:30133**
— *see also* **Hayashi, Mikihiro, 90a:30141**
Nowak, Maria On a certain class of meromorphic and univalent functions. (Russian and Polish summaries) **90c:30019**
Obradović, Milutin A property of the class of functions whose derivative has a positive real part. **90j:30037**
Pu, De Qian On boundary properties of analytic functions. **90c:30052**
Rivlin, T. J. Gauss quadrature for analytic functions. **90e:65031**
— *see also* **Dyn, N.; et al., 90c:30062**
Rubinstein, Sorin *see* **Gohberg, I., 90m:47007**

30D55 H^p-classes

Aleman, Alexandru H^p spaces and integral operators. I. **90e:30033**
Beauzamy, Bernard A minimization problem connected with a generalized Jensen inequality. **90m:30048**
Bishop, Christopher J. An element of the disk-algebra that is stationary on a set of positive length. (Russian) **90k:30064**
Bonvalot, Laurence Continuité dans la formule de Jensen. [Continuity in Jensen's formula] **90b:30038**
Brown, Johnny E. (*with* Walker, Janice B.) A coefficient estimate for nonvanishing H^p functions. **90c:30058**
Burbea, J. Exponential inequality for holomorphic functions with finite Dirichlet integrals. **90k:30065**
Chang, Xin Yi On $H(\varphi)$ spaces. (Chinese. English summary) **90i:30052**
Cohn, William S. A maximum principle for star invariant subspaces. **90c:30059**
Duren, P. L. Smirnov domains. (Russian summary) **90k:30066**
Dzhrbashyan, A. È. (*with* Karapetyan, A. O.) Integral inequalities between conjugate pluriharmonic functions in multidimensional domains. **90e:30034**
Gvaradze, M. I. On holomorphic functions whose maximum modulus grows arbitrarily slowly. (Russian. English summary) **90k:30067**
Heinig, H. P. (*with* Sinnamon, Gordon) Integral representations of functions in weighted Bergman spaces. **90g:30033**
Huang, Li Feng *see* **Ren, Fu Yao, 90g:30034**
Karapetyan, A. O. *see* **Dzhrbashyan, A. È., 90e:30034**
Kim, Hong Oh (*with* Kwon, E. G.) Weighted subspaces of Hardy spaces. **90a:30095**
Kwon, E. G. Fractional integration and the hyperbolic derivative. **90a:30096**
— *see also* **Kim, Hong Oh, 90a:30095**
Ren, Fu Yao (*with* Huang, Li Feng) Extension of a theorem of Carleson-Duren. **90g:3003**
Rigler, A. K. (*with* Trimble, Selden Y.; Varga, Richard S.) Sharp lower bounds for a generalized Jensen inequality. **90j:30055**
Shen, Xie Chang (*with* Xing, Fu Chong; Zhang, You Guang) Hardy-Littlewood type theorems in Bers spaces. (Chinese. English summary) **90i:30053**
Shirokov, N. A. ★ Analytic functions smooth up to the boundary. **90h:30087**
Sinnamon, Gordon *see* **Heinig, H. P., 90g:30033**
Slavin, Charles P. Properties of power series coefficients of $H^2(\Pi_+)$ functions. **90k:30068**
Solyanik, A. A. Approximation of functions in $H^p(\mathbf{R})$. (Russian) (*see* **90d:00046**)
Suita, Nobuyuki On harmonic majorization. **90d:30102**
Trimble, Selden Y. *see* **Rigler, A. K.; et al., 90j:30055**
Varga, Richard S. *see* **Rigler, A. K.; et al., 90j:30055**
Walker, Janice B. *see* **Brown, Johnny E., 90c:30058**
Wang, Jian The corona theorem with infinite data on a class of infinitely connected domains. (Chinese) **90c:30060**
Wulan, Hasi BMO meromorphic functions, normal functions and Carleson measure. (Chinese. English summary) **90k:30069**
Xing, Fu Chong *see* **Shen, Xie Chang; et al., 90i:30053**
Yang, Shan Shuang Quasidisks and the BMO_ρ extension property. (Chinese summary) **90c:30061**
Yao, Bi Yun Another characterization of a meromorphic function with bounded mean oscillation. (Chinese) (Not in MR)
Zhang, Jian Zhong Properties of $H(\Phi)$-spaces and the Deeb-Marzuq conjecture. (Chinese. English summary) **90j:30056**
Zhang, You Guang *see* **Shen, Xie Chang; et al., 90i:30053**
Zinsmeister, Michel Les domaines de Carleson. [Carleson domains] **90i:30054**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Shirokov, N. A., 90h:30087**

Items with secondary classifications in 30D55

Abu-Muhanna, Yusuf (*with* Lyzzaik, A. K.) The boundary behaviour of harmonic univalen maps. **90m:30044**
Aikawa, Hiroaki Harmonic functions having no tangential limits. **90h:31003**
Andersson, J.-E. Rational approximation to functions like x^α in integral norms. (Russian summary) **90a:30103**
Bakarchuk, S. B. Widths of some classes of analytic functions in the Hardy space H_2. **90i:30057**
Chen, Yong Zhuo (*with* Lau, Ka Sing) Some new classes of Hardy spaces. **90f:46059**
Cima, Joseph (*with* Stegenga, David A.) Hankel operators on H^p. **90g:47049**
Foiaş, Ciprian (*with* Tannenbaum, Allen) On the Nehari problem for a certain class of L^∞ functions appearing in control theory. II. **90c:93025**
Gaĭmnazarov, G. Properties of functions in the spaces $H_p(-\infty, \infty)$, $0 < p < 1$. (Russian. Tajiki summary) **90k:46049**
Grigoryan, Souren Arshakovich A property of almost-periodic analytic functions. **90h:30009**
He, Yu Zan A class of special Hardy-Orlicz spaces and the space of BMOA functions. **90a:46054**
Hui, Stefen Y. Blaschke products and nonvanishing bounded analytic functions separating sequences. **90c:30055**
Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. **90c:47068**
Krotov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) **90h:42030**
— *see also* **Storozhenko, È. A., 90c:42028**
Lau, Ka Sing *see* **Chen, Yong Zhuo, 90f:46059**
Liu, Kang Zhi (*with* Mita, Tsutomu) Conjugation and H^∞ control of discrete-time systems. **90m:93084**
Lyzzaik, A. K. *see* **Abu-Muhanna, Yusuf, 90m:30044**
Mel'nik, Yu. I. Direct theorems for the approximation of functions that are regular in convex polygons by exponential polynomials in an integral metric. **90e:30040**
Mita, Tsutomu *see* **Liu, Kang Zhi, 90m:93084**
Mullaev, M. U. A space, conjugate to $E^p(\mathscr{D})$ $(1 \le p < \infty)$, and a simple generalization of the Wiener-Paley theorem. (Russian) (*see* **90d:41001**)
Nakazi, Takahiko Weighted norm inequalities and uniform algebras. **90d:46079**
Nawrocki, M. The nonisomorphism of the Smirnov classes of different balls and polydiscs. **90k:46052**
Pavlović, Miroslav Convolution in the harmonic Hardy class h^p with $0 < p < 1$. **90i:31005**
Pérez-González, F. H^p joint approximation. **90a:30109**
Ren, Fu Yao Some results on H^p spaces and A^p Bergman spaces. **90a:30002**
Rukshin, S. E. A linear interpolation operator in multiply connected domains. (Russian) **90k:41005**
Sedletskiĭ, A. M. Projecting from spaces E^p in a convex polygon onto subspaces of periodic functions. **90c:42027**
Shapiro, Joel H. (*with* Sundberg, Carl) Compact composition operators on L^1. **90d:47035**
Shen, Xie Chang Some properties of interpolating basic functions in the unit disk. **90a:30102**
— (*with* Xing, Fu Chong) The problem of best approximation by polynomials in the spaces H_q^p $(0 < p < 1,\ q > 1)$. (Chinese. English summary) **90a:30111**
Shi, Xian Liang (*with* Torchinsky, Alberto) Local sharp maximal functions in spaces of homogeneous type. **90f:42019**
Siskakis, Aristomenis G. The Cesàro operator is bounded on H^1. **90m:47050**
Spitkovskiĭ, I. M. (*with* Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,\rho}$ and some of its applications. **90k:47057**

Stegenga, David A. *see* **Cima, Joseph, 90g:47049**
Storozhenko, È. A. (*with* Krotov, V. G.) Best approximations and derivatives of analytic functions of Hardy classes. (Russian) **90c:42028**
Stroethoff, Karel Besov-type characterisations for the Bloch space. **90h:32012**
Sundberg, Carl *see* **Shapiro, Joel H., 90d:47035**
Tannenbaum, Allen *see* **Foiaş, Ciprian, 90c:93025**
Tashbaev, A. M. *see* **Spitkovskiĭ, I. M., 90k:47057**
Torchinsky, Alberto *see* **Shi, Xian Liang, 90f:42019**
Xiao, Jie^2 Bergman, quasihyperbolic metrics and Bloch-kernel functions on the bounded domains. (Chinese summary) **90i:30016**
Xing, Fu Chong *see* **Shen, Xie Chang, 90a:30111**
Yao, Bi Yun Carleson measure and BMO interpolation. **90m:30050**

30D60 Quasianalytic and other classes of functions

Cai, Hai Tao *see* **Li, Guo Ping, 90b:30039**
Khryptun, V. G. Expansion of functions of quasi-analytic classes in series in polynomials. **90j:30057**
Koosis, Paul ★ The logarithmic integral. I. **90a:30097**
Li, Guo Ping (*with* Cai, Hai Tao) ★ Zhunjiexi hanshu lun. (Chinese) [Theory of quasianalytic functions] **90b:30039**
Linden, C. N. Integral logarithmic means for regular functions. **90g:30035**
Sindalovskiĭ, G. Kh. Some sufficient conditions for the boundedness of analytic functions or for membership in the Smirnov class. (Russian) **90i:30055**

Items with secondary classifications in 30D60

Belingeri, Carlo Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) **90f:42025**
Ider, Mostéfa On the superposition of functions in Carleman classes. **90k:26042**
— *see also* **Siddiqi, Jamil A., 90h:26036**
Siddiqi, Jamil A. (*with* Ider, Mostéfa) Characterization of inverse-closed Beurling classes. **90h:26036**
Xiao, Yi Min Random power series and α-Bloch functions. (Chinese. English summary) **90a:30006**
Yulmukhametov, R. S. Duality in convex domains. (Russian) (*see* **90d:41001**)

30D99 None of the above, but in this section

Items with secondary classifications in 30D99

Arakelyan, N. U. *see* **Avetisyan, Ruben Abelevich, 90j:30062**
Avetisyan, Ruben Abelevich (*with* Arakelyan, N. U.) Best approximations by meromorphic functions in angular domains. **90j:30062**
Choe, Boo Rim Composition property of holomorphic functions on the ball. **90g:32005**
Ramachandra, K. An application of Borel-Carathéodory theorem. **90j:30034**
Reeve, D. E. Some relations of the Mandelbrot and Julia sets: a computational exploration. (Not in MR)
Vinnitskiĭ, B. V. Effective expansion of analytic functions in series in generalized systems of exponentials. **90j:30005**
Wallet, G. Comment É. Picard désingularisait une courbe algébrique plane complexe. [How É. Picard desingularized a complex algebraic plane curve] (*see* **90j:03116**)

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

Agler, Jim Nevanlinna-Pick interpolation on Sobolev space. **90f:30041**
Andersson, Mats The corona theorem for matrices. **90g:30036**
Bokhari, M. A. Equiconvergence of some sequences of complex interpolating rational functions: quantitative estimates and sharpness. **90b:30040**
Bolotnikov, V. A. Descriptions of solutions of a degenerate moment problem on the axis and the halfaxis. (Russian) **90g:30037**
Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (*see* **90k:41001**)
Fisher, S. D. Envelopes, widths, and Landau problems for analytic functions. **90b:30041**
Foiaş, Ciprian (*with* Tannenbaum, Allen) On the parametrization of the suboptimal solutions in generalized interpolation. **90k:30070**
Ivanov, Kamen G. (*with* Sharma, Ambikeshwar) Converse results on equiconvergence of interpolating polynomials. (Russian summary) **90d:30103**
Iwase, Hide-aki *see* **Kimura, Hidenori, 90m:30049**
Kaz′min, Yu. A. A variant of the Abel-Goncharov interpolation problem. **90i:30056**
Kimura, Hidenori (*with* Iwase, Hide-aki) On directional interpolation in H^∞. **90m:30049**
Korevaar, J. Interpolation by entire functions in **C**—another look. **90a:30098**
Lou, Yuan Ren On a theorem of Saff and Varga. **90d:30104**
Lyubarskiĭ, Yu. I. Series of exponentials in Smirnov spaces and interpolation by entire functions of special classes. **90a:30099**
Marcellán, Francisco (*with* Pérez Grasa, I.) The moment problem on equipotential curves. **90f:30042**
Mullaev, M. U. Interpolation by entire functions belonging to special classes and related approximation problems. (Russian) (*see* **90d:00046**)
Nakazi, Takahiko Notes on interpolation by bounded analytic functions. **90a:30100**
Njåstad, Olav Contractive Laurent fractions and nested discs. **90e:30035**
Orudzhev, G. A. Interpolation by rational functions. (Russian) **90a:30101**
Pérez Grasa, I. *see* **Marcellán, Francisco, 90f:30042**
Piedra, René On simultaneous rational interpolants of type (α,β). **90j:30058**
Power, Stephen An elementary approach to the matricial Nevanlinna-Pick interpolation criterion. **90b:30042**
Reczek, Krzysztof Rational interpolation on the unit circle. (Russian and Polish summaries) **90b:30043**
Sharma, Ambikeshwar *see* **Ivanov, Kamen G., 90d:30103**
Shen, Xie Chang Some properties of interpolating basic functions in the unit disk. **90a:30102**
Stahl, Herbert Asymptotics of Hermite-Padé polynomials and related convergence results—a summary of results. **90h:30088**
Takahashi, Sechiko Extension of the theorems of Carathéodory-Toeplitz-Schur and Pick. **90d:30105**
Tannenbaum, Allen *see* **Foiaş, Ciprian, 90k:30070**
Thron, W. J. L-polynomials orthogonal on the unit circle. **90j:30059**
Yao, Bi Yun Carleson measure and BMO interpolation. **90m:30050**

Items with secondary classifications in 30E05

Alpay, Daniel (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**
Ball, Joseph A. Nevanlinna-Pick interpolation: generalizations and applications. **90g:47002**
— (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**
— (*with* Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. **90m:47005**
Chihara, T. S. Hamburger moment problems and orthogonal polynomials. **90b:42035**
Cohen, Nir *see* **Ball, Joseph A.; et al., 90m:47005**
Constantinescu, T. Operator Schur algorithm and associated functions. **90a:47018**
Dym, H. ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**
Dyn, N. (*with* Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞. **90c:30062**
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30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

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30E25 Boundary value problems [see also 45Exx]

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Akhmedov, R. Boundary value problems for the equation $2\overline{z}\partial_{\overline{z}}\Phi - \lambda e^{in\varphi}\overline{\Phi} = 0$. (Russian. Tajiki summary) (Not in MR)

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— The Riemann boundary value problem with an oscillating coefficient, and singular integ equations on a rectifiable curve. **90c:30071**

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30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Baldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**

Bronza, S. D. (*with* Tairova, V. G.) The existence of algebraic functions with given branching that satisfy an additional condition. (Russian) **90j:30070**

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Reyssat, É. ★ Quelques aspects des surfaces de Riemann. (French) [Some aspects of Riemann surfaces] **90k:30085**

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— (*with* Sorvali, Tuomas) Affine coordinates for Teichmüller spaces. **90e:32024**

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Xiao, Liang On complete minimal surfaces with parallel and flat ends. **90d:53015**

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30F15 Harmonic functions on Riemann surfaces

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Khavinson, S. Ya. Theory of factorization of single-valued analytic functions on compact Riemann surfaces with a boundary. **90m:30047**

30F20 Classification theory of Riemann surfaces

Bujalance, E. (*with* Etayo Gordejuela, José Javier; Gamboa, J. M.; Martens, Gerriet) Minimal genus of Klein surfaces admitting an automorphism of a given order. **90b:30052**

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Järvi, Pentti Riemann surfaces with the AD-maximum principle. **90e:30045**

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30F25 Ideal boundary theory

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30F30 Differentials on Riemann surfaces

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— On ramification divisors of functions in a punctured compact Riemann surface. **90h:30107**
Jablow, Eric Robert An analogue of the Rauch variational formula for Prym differentials. **90f:30056**
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Sengupta, Jharna A uniqueness theorem of reflectable deformations of a Fuchsian group. **90c:30076**
Shiba, Masakazu (*with* Shibata, Keiichi) Hydrodynamic continuations of an open Riemann surface of finite genus. **90e:30047**
Shibata, Keiichi *see* **Shiba, Masakazu, 90e:30047**
Taniguchi, Masahiko Abelian differentials with normal behavior and complex pinching deformation. **90d:30123**
Tochowicz, Kajetan The curve on which Re $\int \sqrt{R(z)}\,dz =$ const. (Russian and Polish summaries) **90d:30124**

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Baldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**
Bonora, L. (*with* Matone, Marco; Rinaldi, M.) Bases of meromorphic differentials on genus g Riemann surfaces and applications. **90k:14045**
Dwork, B. *see* **Baldassarri, F.; et al., 90m:30058**
Gustafsson, Björn Singular and special points on quadrature domains from an algebraic geometric point of view. **90i:30066**
Hara, Heihachiro *see* **Mizumoto, Hisao, 90c:65042**
Matone, Marco *see* **Bonora, L.; et al., 90k:14045**
Matsumoto, Toshio On some remarks about analytic differentials of higher order of a compact Riemann surface. **90i:14036**
Mizumoto, Hisao (*with* Hara, Heihachiro) Finite element approximations of harmonic differentials on a Riemann surface. **90c:65042**
Pekonen, Osmo A short proof of a theorem of Ahlfors. **90b:32046**
Rinaldi, M. *see* **Bonora, L.; et al., 90k:14045**
Rodin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. **90f:30054**
Tochowicz, Kajetan Functions which satisfy the differential equation of the Schaeffer type. (Russian and Polish summaries) **90d:30052**
Tovena, F. *see* **Baldassarri, F.; et al., 90m:30058**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 32Gxx, 32Nxx]

Bujalance, E. (*with* Bujalance, J. A.; Martínez, Ernesto) On the automorphism group of hyperelliptic Klein surfaces. **90a:30130**
— (*with* Costa, Antonio F.) Topological characterization of involutions in Klein surfaces. (Spanish. English summary) **90d:30125**
Bujalance, J. A. *see* **Bujalance, E.; et al., 90a:30130**
Costa, Antonio F. *see* **Bujalance, E., 90d:30125**
Erkama, Timo Rational Riemann maps. **90i:30074**
Hejhal, Dennis A. Regular b-groups and repeated Dehn twists. **90f:30057**
Kravtsev, S. V. Some functional and geometric properties of Fuchsian groups. (Russian) (*see* **90m:00040**)
Martínez, Ernesto *see* **Bujalance, E.; et al., 90a:30130**
Maskit, Bernard Parameters for Fuchsian groups. I. Signature (0, 4). **90g:30042**
Masumoto, Makoto The kernel of the Poincaré series operator of weight −2. **90d:30126**
McMullen, Curt Amenability, Poincaré series and quasiconformal maps. **90e:30048**
Metzger, Thomas A. On the exponent of convergence for infinitely generated Fuchsian groups. **90c:30077**
Nakanishi, Toshihiro (*with* Yamamoto, Hiro-o) On the outradius of the Teichmüller space. **90g:30043**
Ohtake, Hiromi On the deformation of Fuchsian groups by quasiconformal mappings with partially vanishing Beltrami coefficients. **90m:30063**
Yamamoto, Hiro-o *see* **Nakanishi, Toshihiro, 90g:30043**

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Bujalance, E. (*with* Gromadzki, Grzegorz) On nilpotent groups of automorphisms of Klein surfaces. **90e:20044**
Derevnin, D. A. (*with* Mednykh, Al. D.) Geometric properties of discrete groups acting with fixed points in a Lobachevskii space. **90a:30131**
Gehring, F. W. (*with* Martin, G. J.) The matrix and chordal norms of Möbius transformations. **90d:30060**
Goncharov, Yu. P. (*with* Spokoĭnyĭ, B. L.) Determinants of Laplacians in real line bundles connected with quantum geometry of strings. **90b:58267**
Gromadzki, Grzegorz *see* **Bujalance, E., 90e:20044**
Haas, Andrew Howard Diophantine approximation on hyperbolic orbifolds. **90c:11031**
Hinkkanen, A. The structure of certain quasisymmetric groups. **90d:30063**
Martin, G. J. *see* **Gehring, F. W., 90d:30060**
Mednykh, Al. D. *see* **Derevnin, D. A., 90a:30131**
Natanzon, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) **90b:14038**
Okumura, Yoshihide On the global real analytic coordinates for Teichmüller spaces. **90k:32071**
Rühl, W. Automorphic functions, Poincaré series, and conformal fields on Riemann surfaces. **90j:11039**
Sengupta, Jharna A uniqueness theorem of reflectable deformations of a Fuchsian group. **90c:30076**
Spokoĭnyĭ, B. L. *see* **Goncharov, Yu. P., 90b:58267**
Tukia, Pekka Homeomorphic conjugates of Fuchsian groups: an outline. **90h:22011**

30F40 Kleinian groups [see also 20H10]

Derevnin, D. A. (*with* Mednykh, Al. D.) Geometric properties of discrete groups acting w fixed points in a Lobachevskii space. **90a:30131**
Doyle, Peter G. On the bass note of a Schottky group. **90b:30053**
Gehring, F. W. (*with* Martin, G. J.) Iteration theory and inequalities for Kleinian groups. **90k:30086**
Gusevskiĭ, N. A. Geometric decomposition of Kleinian groups in space. **90c:30078**
Martin, G. J. *see* **Gehring, F. W., 90k:30086**
Maskit, Bernard ★ Kleinian groups. **90a:30132**
— (*with* Swarup, Gadde) Two parabolic generator Kleinian groups. **90i:30075**
Mednykh, Al. D. *see* **Derevnin, D. A., 90a:30131**
Ohshika, Ken'ichi On limits of quasi-conformal deformations of Kleinian groups. **90f:30058**
Sasaki, Takehiko A graph for Kleinian groups. **90g:30044**
Sekigawa, Hisao A theorem on the limit sets of quasiconformal deformations of infinitely generated Fuchsian groups of the first kind. **90h:30108**
Swarup, Gadde *see* **Maskit, Bernard, 90i:30075**
Tukia, Pekka A remark on a paper by Floyd. **90b:30054**

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Jørgensen, Troels (*with* Marden, Albert) Kleinian groups with quotients of finite volume. **90c:22032**
Kapovich, M. È. Conformal structures with Fuchsian holonomy. **90c:57007**
Klimenko, E. Ya. Discrete groups in the three-dimensional Lobachevskiĭ space that are generated by two rotations. **90e:22017**
Kra, Irwin Nonvariational global coordinates for Teichmüller spaces. **90b:32044**
— Moduli for Riemann surfaces. **90g:32026**
Marden, Albert *see* **Jørgensen, Troels, 90c:22032**
Miller, Andy A group theoretic characterization of the 2-dimensional spherical groups. **90j:20052**
Morgan, John W. Trees and hyperbolic geometry. **90f:57044**
Pollicott, Mark Kleinian groups, Laplacian on forms and currents at infinity. **90m:58217**
Potyagaĭlo, L. D. Three-dimensional Kleinian groups that are isomorphic to the fundamental group of the Haken manifold. **90k:57020**
Soma, Teruhiko Geometric convergence for laminated surfaces. **90f:57020**
Susskind, Perry Kleinian groups with intersecting limit sets. **90f:57045**

30F99 None of the above, but in this section

Andreian Cazacu, Cabiria Morphisms of Klein surfaces and Stoilow's topological theory of analytic functions. **90f:30059**
Bârză, Ilie The dianalytic morphisms of the Klein bottles. **90b:30055**
Cazacu, Cabiria Andreian Complete Klein coverings of Klein surfaces of characteristic 0. I. **90b:30056**
Nakai, Mitsuru Valuations on meromorphic functions of bounded type. **90a:30133**
Renggli, H. Remarks on the Picard theorem. **90a:30134**

Items with secondary classifications in 30F99

Bujalance, J. A. Orders of the automorphisms of bordered Klein surfaces of topological genus 2. (Spanish. English summary) **90j:20098**
Colbois, B. (*with* Colin de Verdière, Yves) Sur la multiplicité de la première valeur propre d'une surface de Riemann à courbure constante. [Multiplicity of the first eigenvalue of a Riemann surface with constant curvature] **90c:58182**
Colin de Verdière, Yves *see* **Colbois, B., 90c:58182**
Freedman, D. Z. (*with* Latorre, J. I.; Pilch, K.) Global aspects of the harmonic gauge in bosonic string theory. **90a:81123**
Gardiner, Frederick P. On completing triangles in infinite-dimensional Teichmüller spaces. **90j:30036**
Heins, Maurice A theorem of Wolff-Denjoy type. **90d:30077**
Kizuka, Takashi (*with* Matsumoto, Mitsuo) On meromorphic mappings of Poincaré type o two complex variables. **90j:32031**
Latorre, J. I. *see* **Freedman, D. Z.; et al., 90a:81123**
Matsumoto, Mitsuo *see* **Kizuka, Takashi, 90j:32031**
(McArthur, I. N.) *see* **Schlichenmaier, Martin, 90c:32033**
Mukhi, Sunil An introduction to Riemann surfaces for physicists. (*see* **90f:81011**)
Niino, Kiyoshi Some results on analytic mappings between two ultrahyperelliptic surfaces. **90d:30092**
Osipov, È. P. The central extension of Kac-Moody-Mal′cev algebras. **90j:17046**
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Schlichenmaier, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. **90c:32033**
Suita, Nobuyuki On harmonic majorization. **90d:30102**
Yakubovich, D. V. Multiplication operators on special Riemann surfaces as models of rational Toeplitz operators. **90c:47051**

30Gxx Generalized function theory

30G05 Non-Archimedean function theory [see also 12J25]

Items with secondary classifications in 30G05

André, Yves Spécialisation dans les disques singuliers réguliers. [Specialization in regular singular discs] **90f:12008**
Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] **90i:32024**
— Derivative of analytic elements on infraconnected clopen sets. **90d:32028**
Hà Huy Khoái (*with* My Vinh Quang) On p-adic Nevanlinna theory. **90e:11153**
My Vinh Quang *see* **Hà Huy Khoái, 90e:11153**

30G10 Nonstandard function theory [see also 03H05]

Zhang, Rong Xin Some problems in nonstandard complex analysis. (Chinese. English summary) **90m:30064**

Items with secondary classifications in 30G10

Impens, Chris Propagation of microcontinuity for nonstandard polynomials. **90i:26035**

30G15 Topological function theory

Items with secondary classifications in 30G15

Andreian Cazacu, Cabiria Morphisms of Klein surfaces and Stoilow's topological theory of analytic functions. **90f:30059**
Čadek, Martin Oscillatory properties of second order linear differential equations in the complex domain. **90d:34015**
Cristea, Mihai Some conditions for the local or global injectivity of a mapping between two n-manifolds. **90a:57045**
Sokolova, T. V. Structure of mappings with bounded distortion that are close to conformal. **90a:30067**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

Aouf, M. K. On certain subclass of analytic p-valent functions of order alpha. (Italian summary) **90k:30087**
Carl, S. A maximum principle for a class of generalized analytic functions. **90d:30127**
Dadiomov, V. M. Singular cases of a differential conjugation problem for generalized analytic functions. (Russian. Kazakh summary) **90i:30076**
Hoàng Đình Dung On the inversion formulas for the integral representation of $e^{\lambda x}$-analytic functions and their application. **90c:30079**
Huang, Si Xun Expressions for generalized solutions to higher-order hypercomplex systems of equations and generalized Riemann-Hilbert problems. (Chinese) **90g:30045**
Ioakimidis, N. I. A note on the closed-form determination of zeros and poles of generalized analytic functions. **90k:30088**
Lê Hùng So'n The problem of continuation in generalized complex analysis and its applications. (Vietnamese) (Not in MR)
Lü, De A note on the generalized Carleman boundary value problem for the system with constant coefficients of the class E_2. **90m:30065**
Mamaturdiev, T. M. A sufficient condition for the solvability of an interpolation problem for a system of generalized analytic functions. (Russian) **90e:30049**
Mikhaĭlov, L. G. A nonlinear generalized Cauchy-Riemann system with two independent complex variables. **90d:30128**
(Oleĭnik, O. A.) *see* **Vekua, I. N., 90a:30135**
Ospanov, K. N. (*with* Otelbaev, M.) A generalized Cauchy-Riemann system with non-smooth coefficients. (Russian) **90i:30077**
Otelbaev, M. *see* **Ospanov, K. N., 90i:30077**
(Shabat, B. V.) *see* **Vekua, I. N., 90a:30135**
Tokibetov, Zh. A. The Liouville theorem for a generalized Cauchy-Riemann system. (Russian) **90b:30057**
Tungatarov, A. A class of Carleman-Vekua equations with a singular point. (Russian. Kazakh summary) **90c:30080**
— Some integral operators in the theory of generalized analytic functions. (Russian) **90e:30050**
— Continuous solutions of a Carleman-Vekua equation with a singular point. (Russian. Kazakh summary) **90k:30089**
Vekua, I. N. ★ Обобщенные аналитические функции. (Russian) [Generalized analytic functions] **90a:30135**

Items with secondary classifications in 30G20

Adiriskalieva, Zh. N. (*with* Bliev, N. K.) On the solvability of the Carleman-Vekua equation in unbounded domains. (Russian. Kazakh summary) **90d:35084**
Akhalaya, G. Ya. (*with* Mandzhavidze, G. F.) Boundary value problems in the theory of generalized analytic vectors for domains with corner points. (Russian) **90e:30042**
Amirkhanova, S. G. (*with* Shirokova, E. A.) Inverse boundary value problems for functions that are inverse to polyanalytic functions. (Russian) **90b:30047**
Bikchantaev, I. A. *see* **Fomenko, V. T., 90a:53006**
Bliev, N. K. *see* **Adiriskalieva, Zh. N., 90d:35084**
Fomenko, V. T. (*with* Bikchantaev, I. A.) Application of generalized analytic functions on Riemann surfaces to the investigation of G-deformations of two-dimensional surfaces in E^4. **90a:53006**
Kapshivyĭ, A. A. (*with* Yazkulyev, M.) Solution of boundary value problems of p-analytic functions with the characteristic $p = x/(x^2 + y^2)$ for a half-plane with cross-cuts. (Russian) **90a:30118**
Kovács, A. p-analytische Funktionen zum Bestimmen der Integralgleichung des Potentials der Bewegungen der Geschwindigkeiten eines kompresiblen Fluids durch Profilnetze. (Romanian summary) [p-analytic functions for determining the integral equation of the velocity potential of a compressible fluid by means of profile grids] **90e:76093**
Mandzhavidze, G. F. *see* **Akhalaya, G. Ya., 90e:30042**
Mikhaĭlov, L. G. Generalized analytic functions of several variables. (Russian) **90a:32008**
— A quasilinear generalized Cauchy-Riemann system with three independent complex variables. (Russian. Tajiki summary) **90c:35070**
Miroshin, N. V. The maximal Vekua space and spaces close to it. (Russian) **90a:46076**
Mukhsinov, A. (*with* Muminov, A.) The Dirichlet problem for a singular differential equation of elliptic type. (Russian. Tajiki summary) **90h:35104**
Muminov, A. *see* **Mukhsinov, A., 90h:35104**
Murtazaev, D. On the generalized Cauchy-Riemann system with constant coefficients. (Russian. Tajiki summary) **90j:35077**
Radzhabov, N. R. Explicit representations of solutions of systems of second-order differential equations of elliptic type with a singular line. (Russian. Tajiki summary) **90c:35039**
— A new method of representing solutions of systems of second-order differential equations of elliptic type. (Russian. Tajiki summary) **90c:35040**
Renelt, Heinrich ★ Elliptic systems and quasiconformal mappings. **90k:35086**
Rodin, Yu. L. ★ The Riemann boundary problem on Riemann surfaces. **90f:30054**
Shirokova, E. A. *see* **Amirkhanova, S. G., 90b:30047**
So, Gi Yong On a differential boundary value problem with shift for a generalized analytic function. (Korean. English summary) **90h:30104**
Tokibetov, Zh. A. The Riemann-Hilbert problem for a system that is a generalization of a holomorphic vector. (Russian) **90e:35132**
Tovmasyan, N. E. Well-posed boundary value problems for the Carleman-Vekua equation in a half-plane. (Russian) **90e:35059**
Tungatarov, A. The Riemann-Hilbert problem for the generalized Cauchy-Riemann system with a finite number of singular points. (Russian. Kazakh summary) **90b:30050**
— A Carleman-Vekua equation with a singular point. **90h:35106**
Tutschke, Wolfgang Contraction-mapping principles for initial value problems with generalized analytic initial functions. **90k:35007**
— ★ Solution of initial value problems in classes of generalized analytic functions. **90k:35006**
Verkhovod, D. B. A conjugation boundary value problem for solutions of a quasilinear Beltrami equation on compact Riemann surfaces. (Russian) **90k:30083**
Wen, Guo Chun Some boundary value problems for nonlinear degenerate elliptic complex equations. **90j:35093**
Xu, Ke Ming *see* **Yang, Guang Wu, 90a:35077**
Yang, Guang Wu (*with* Xu, Ke Ming) Discontinuous Riemann boundary value problems for complex first-order nonlinear elliptic equations. (Chinese. English summary) **90a:35077**
Yazkulyev, M. *see* **Kapshivyĭ, A. A., 90a:30118**

30G25 Discrete analytic functions

Vijayakumar, Ambat Some characterization theorems for the discrete holometric space. **90i:30078**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Borichev, A. A. (*with* Vol′berg, A. L.) Uniqueness theorems for almost analytic functions. (Russian) **90k:30090**
— Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. **90d:30129**
Vol′berg, A. L. *see* **Borichev, A. A., 90k:30090**

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Abdushukurov, A. M. An integral representation of solutions of the Moisil-Teodorescu system with singularities in the small terms. (Russian) **90g:35029**
Akın, Ömer (*with* Çelebi, A. Okay) Generalized Cauchy-Riemann equations and the positive $\underset{\sim}{k}$-subharmonic functions. **90b:31002**
Alpay, Daniel (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**
Ball, Joseph A. (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**
Bernal Serrano, Antonio Holomorphic functions taking values in quasi-Banach spaces and the three-line theorem. (Spanish. English summary) **90c:46056**
Çelebi, A. Okay *see* **Akın, Ömer, 90b:31002**
Cohen, Jonathan Cauchy formulae for functions analytic of order two on C^1 domains with applications to elastostatics and hydrostatics. **90b:35076**
Gehring, F. W. (*with* Martin, G. J.) The matrix and chordal norms of Möbius transformations. **90d:30060**
Gohberg, I. *see* **Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006** *and* **Topics in interpolation theory of rational matrix-valued functions, 90m:47001**
Ivanov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) **90i:46099**
Katsnel′son, V. È. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) **90k:47030**
Martin, G. J. *see* **Gehring, F. W., 90d:30060**
Rodman, Leiba *see* **Ball, Joseph A.; et al., 90m:47002**

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Topics in interpolation theory of rational matrix-valued functions ★ Topics in interpolation theory of rational matrix-valued functions. **90m:47001**

30G35 Functions of hypercomplex variables and generalized variables

Akhalaya, G. Ya. (*with* Mandzhavidze, G. F.) On the Green identity for generalized analytic vectors. (Russian. English and Georgian summaries) **90d:30130**
Bezkrovnyĭ, Yu. D. Faber matrix series. (Russian) (*see* **90i:00006**)
Constales, Denis On separately monogenic functions. **90m:30066**
Dyakova, D. N. Quaternion functions that are associated with analytic functions of a complex variable. (Bulgarian. English and Russian summaries) **90h:30109**

Good, I. J. A simple generalization of analytic function theory. **90a:30136**

Huang, Si Xun Clifford algebra, theory of its functions and their application to mechanics. **90j:30072**

Lounesto, Pertti (*with* Springer, Arthur) Möbius transformations and Clifford algebras of Euclidean and anti-Euclidean spaces. **90d:30131**

Mandzhavidze, G. F. *see* **Akhalaya, G. Ya., 90d:30130**

Marinov, Marin Stefanov Cauchy-Riemann equations in a class of quaternion functions. (Russian. English and Bulgarian summaries) **90h:30110**

— On a class of hyperholomorphic functions. **90a:30137**

Martin, E. Dale Some elements of a theory of multidimensional complex variables. I. General theory. **90m:30067**

— Some elements of a theory of multidimensional complex variables. II. Expansions of analytic functions and application to fluid flows. **90m:30068**

Nôno, Kiyoharu Domains of hyperholomorphy in $\mathbf{C}^2 \times \mathbf{C}^2$. **90k:30091**

— On the octonionic linearization of Laplacian and octonionic function theory. **90i:30079**

Ryan, John Iterated Dirac operators and conformal transformations in $\mathbf{R}^n$. **90m:30069**

Sano, Kimirô The derivatives of Cauchy's kernel and Cauchy's estimate in Clifford analysis. **90g:30046**

Schmieder, L. Beitrag zur Quaternionenrechnung. [Contribution to the calculus of quaternions] (*see* **90a:00025**)

Shpil'ker, G. L. Some spectral properties of representations of hypercomplex wave fields. (Russian) **90c:30081**

Sommen, F. Plane wave decompositions of monogenic functions. **90d:30132**

— Power series expansions for monogenic functions. **90i:30080**

Springer, Arthur *see* **Lounesto, Pertti, 90d:30131**

Xiong, Xi Jin Hypercomplex functionals. III. Uniqueness theorem and a class of boundary value problems of a new type. (Chinese. English summary) **90b:30058a**

— Multivariable hypercomplex functionals and their iterated integrals. (Hypercomplex functions. IV). (Chinese. English summary) **90b:30058b**

Xu, Zhen Yuan[1] Several fundamental theorems for regular functions with values in a Clifford algebra. (Chinese. English summary) **90m:30070**

Zeng, Yue Sheng The sufficient and necessary conditions of univalent matrix functions. (Chinese summary) **90h:30111**

— On Riemann boundary value problem for hyperanalytic function in rectifiable open curve. (Chinese summary) **90h:30112**

Zöll, Georg Regular n-forms in Clifford analysis, their behavior under change of variables and their residues. **90e:30051**

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Brackx, F. (*with* Constales, Denis; Ronveaux, A.; Serras, H.) On the harmonic and monogenic decomposition of polynomials. **90i:30001**

Constales, Denis *see* **Brackx, F.; et al., 90i:30001**

Deheuvels, René Une application des algèbres de Clifford. [An application of Clifford algebras] **90m:53029**

Gürlebeck, Klaus (*with* Sprössig, Wolfgang) Methods of quaternionic analysis for the analytical and numerical consideration of boundary value problems. **90h:35012**

Inenaga, Yoshikazu *see* **Nôno, Kiyoharu, 90k:32015**

Kon, B. A. Factorization of piecewise valued matrix functions and its applications. **90a:47034**

Kovalishina, I. V. Theory of a multiple j-elementary matrix-function with a pole on the boundary of the unit disk. (Russian) **90a:47035**

Nôno, Kiyoharu (*with* Inenaga, Yoshikazu) On quaternionic analysis of holomorphic mappings in $\mathbf{C}^2$. **90k:32015**

Ronveaux, A. *see* **Brackx, F.; et al., 90i:30001**

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Sommen, F. A Clifford-Radon transform in Euclidean space. **90k:81096**

— Clifford-Radon transforms applied to massless fields. **90a:81060**

— Spingroups and spherical means. III. **90i:22018**

Sprössig, Wolfgang *see* **Gürlebeck, Klaus, 90h:35012**

Zeng, Yue Sheng A class of hypercomplex singular integral equations on rectifiable closed curves. (Chinese. English summary) **90b:45015**

30G99 None of the above, but in this section

Cai, Hui Jing The Bergman kernel of a class of generalized analytic functions. (Chinese. English summary) **90a:30138**

Ren, Hong Shan The hyperbolic quasifield of numbers on the plane and analytic functions on it. I. (Chinese. English summary) **90a:30139**

Items with secondary classifications in 30G99

Grabowski, Marek (*with* Tze, Chia Hsiung) Generalized self-dual bosonic membranes, vector cross-products and analyticity in higher dimensions. **90g:53086**

Levinskiĭ, S. V. Noether theory of the first boundary value problem for polyanalytic functions. (Russian) **90k:30082**

Rasulov, K. M. Solution of boundary value problems of Riemann type for polyanalytic functions in the case of multiply connected domains. **90h:30103**

Sedletskiĭ, A. M. Analytic functions in nonharmonic Fourier analysis. (Russian. Serbo-Croatian summary) **90m:42041**

Tze, Chia Hsiung *see* **Grabowski, Marek, 90g:53086**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Abanin, A. V. Weakly sufficient sets in some spaces of entire functions. (Russian) (*see* **90i:00006**)

Bhave, N. S. (*with* Raghunathan, T. T.) A note on a theorem of Iyer. **90d:30133**

Gil'mutdinova, A. Ya. A theorem on the extension of spectral synthesis. (Russian) **90a:30140**

Grigoryan, N. V. Convergence of sequences in M. M. Dzhrbashyan's spaces. (Russian) **90k:30092**

Gupta, J. S. On the space of entire Dirichlet series. **90h:30113**

Hayashi, Mikihiro (*with* Nakai, Mitsuru) Point separation by bounded analytic functions of a covering Riemann surface. **90a:30141**

Kushnirchuk, I. F. Bases of analytic spaces that are generated by linear continuous operators. (Russian) (*see* **90d:00046**)

Kuzbekov, T. T. Generators in a ring of entire functions of exponential type. (Russian) (*se* **90d:41001**)

Nagnibida, N. I. Strongly cyclic elements of some operators in analytic spaces. (Russian) (*see* **90d:00046**)

Nakai, Mitsuru *see* **Hayashi, Mikihiro, 90a:30141**

Raghunathan, T. T. *see* **Bhave, N. S., 90d:30133**

Shamoyan, F. A. Description of closed ideals in Nevanlinna-Dzhrbashyan algebras, and characterization of weakly cyclic elements of the algebra N^+. **90k:30093**

Srivastava, P. D. The classical interpretation of convergence in the space of entire function of Seremeta order not exceeding ρ is obtained. (Russian and Polish summaries) **90h:30114**

Yulmukhametov, R. S. Duality in convex domains. (Russian) (*see* **90d:41001**)

Items with secondary classifications in 30H05

Akeroyd, John Point evaluations and polynomial approximation in the mean with respect t harmonic measure. **90a:46050**

Arazy, Jonathan (*with* Fisher, S. D.; Peetre, Jaak) Besov norms of rational functions. **90a:46051**

— Membership of Hankel operators on planar domains in unitary ideals. **90g:47048**

Axler, Sheldon (*with* Gorkin, Pamela) Sequences in the maximal ideal space of H^∞. **90h:46087**

Bercovici, H. ★ Operator theory and arithmetic in H^∞. **90e:47001**

Bhave, N. S. Bornological properties of some generalized spaces of entire functions. **90b:46054**

Bishop, Christopher J. An element of the disk-algebra that is stationary on a set of positive length. (Russian) **90k:30064**

— Constructing continuous functions holomorphic off a curve. **90a:46134**

Boman, Jan (*with* Janson, Svante; Peetre, Jaak) Big Hankel operators of higher weight. **90i:47031**

Borichev, A. A. Boundary uniqueness theorems for almost analytic functions, and asymmetric algebras of sequences. **90d:30129**

de Branges, Louis Kreĭn spaces of analytic functions. **90c:47060**

Bruĭ, I. N. On the strong constructive characterization of analytic functions of Hölder classes. (Russian) (Not in MR)

Burbea, J. Exponential inequality for holomorphic functions with finite Dirichlet integrals. **90k:30065**

Chan, Kit Chak On the Dirichlet space for finitely connected regions. **90j:46029**

Charris Castañeda, Jairo A. (*with* Huérfano, Ruth S.) On some spaces of analytic functions and their duality relations. **90m:46038**

Dudziak, James A weak-star rational approximation problem connected with subnormal operators. **90k:30072**

Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. **90g:46075**

Fisher, S. D. *see* **Arazy, Jonathan; et al., 90a:46051**

Forstnerič, Franc Polynomial hulls of sets fibered over the circle. **90g:32018**

Gamelin, T. W. On analytic disks in the spectrum of a uniform algebra. **90d:46076**

— Weak-star closed algebra containing $R(K)$. **90d:46077**

Gorkin, Pamela Gleason parts and COP. **90e:46043**

— *see also* **Axler, Sheldon, 90h:46087**

Hayashi, Eric Classification of nearly invariant subspaces of the backward shift. **90m:47013**

Hedenmalm, Håkan On the f- and K-properties of certain function spaces. **90g:46076**

Huérfano, Ruth S. *see* **Charris Castañeda, Jairo A., 90m:46038**

Ivanov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) **90i:46099**

Janson, Svante *see* **Boman, Jan; et al., 90i:47031**

Kolaski, Clinton J. Isometries of some smooth normed spaces of analytic functions. **90e:46044**

Linchuk, S. S. *see* **Nagnibida, N. I., 90k:47066**

Mochizuki, Nozomu Algebras of holomorphic functions between H^p and N_*. **90a:46137**

Mortini, Raymond (*with* von Renteln, Michael) Some remarkable properties of the Wiener algebra W^+. **90a:46143**

— (*with* von Renteln, Michael) Ideals in the Wiener algebra W^+. **90a:46138**

— Corona theorems for subalgebras of H^∞. **90h:46088**

Nagnibida, N. I. (*with* Linchuk, S. S.) Equivalence of differential operators in a space of functions that are analytic in the disk. (Russian) **90k:47066**

Nakai, Mitsuru Valuations on meromorphic functions of bounded type. **90a:30133**

Ohno, Yoshiki A problem of prediction theory type in T^2. **90b:46057**

Partington, Jonathan R. ★ An introduction to Hankel operators. **90c:47047**

Pavone, Marco On the positive linear functionals on the disc algebra. **90i:46049**

Peetre, Jaak Hankel forms on multiply connected plane domains. I. The case of connectivity two. **90j:30013**

— *see also* **Arazy, Jonathan; et al., 90a:46051** *and* **Boman, Jan; et al., 90i:47031**

Popenov, S. V. A class of weighted spaces of entire functions. (Russian) (*see* **90d:41001**)

von Renteln, Michael *see* **Mortini, Raymond, 90a:46138** *and* **90a:46143**

Rochberg, Richard Deformation theory for algebras of analytic functions. **90b:46111**

Rupp, Rudolf Stable rank of subalgebras of the disc algebra. **90f:46087**

Sakai, Makoto Finiteness of the family of simply connected quadrature domains. **90a:30114**

Samokhin, M. V. Boundary behavior of analytic functions in domains of arbitrary connection. (Russian. Armenian summary) **90c:30053**

Sarason, Donald Nearly invariant subspaces of the backward shift. **90m:47012**

Skwarczyński, Maciej L^2-angles between one-dimensional tubes. **90a:46062**

Titus, J. P. J. On certain sub-spaces of Γ. **90d:46040**

Wang, Jian The corona theorem with infinite data on a class of infinitely connected domains. (Chinese) **90c:30060**
— A corona theorem for countably many functions on a class of infinitely connected domains. **90j:46050**
Wolf, Edwin Superharmonic functions and bounded point evaluations. **90h:31002**
Xiao, Jie¹ Equivalence between Bloch space and BMOA space. (Chinese summary) (Not in MR)
Xiao, Jie² Completeness for $H_q^p(D)$-space. **90a:46058**
Zinsmeister, Michel Les domaines de Carleson. [Carleson domains] **90i:30054**

31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 31–00

Items listed otherwise than by author

Reviews in complex analysis ★ Reviews in complex analysis 1980–86. Vol. 1–4. **90b:00013**

31–02 Advanced exposition (research surveys, monographs, etc.)

Wu, Jiong Qi The Martin boundary and its applications. (Chinese. English summary) **90i:31001**

Items with secondary classifications in 31–02

Antonov, V. A. (*with* Timoshkova, E. I.; Kholshevnikov, K. V.) ★ Введение в теорию ньютоновского потенциала. (Russian) [Introduction to the theory of Newtonian potential] **90b:86009**
Kholshevnikov, K. V. *see* **Antonov, V. A.; et al., 90b:86009**
Martio, O. ★ Potential theoretic aspects of nonlinear elliptic partial differential equations. **90h:31012**
Pagani, Carlo Domenico On the harmonic moments of a plane domain. **90m:31004**
(Shkodrov, V. G.) *see* **Antonov, V. A.; et al., 90b:86009**
Timoshkova, E. I. *see* **Antonov, V. A.; et al., 90b:86009**

31–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 31–03

Choquet, Gustave The birth of capacity theory: reflections on a personal experience. (Czech) **90e:01035**
(Green, George) *see* **Lyubimov, Yu. A., 90i:01019**
Lyubimov, Yu. A. G. Green's contribution to the development of electromagnetism. (Russian. English summary) **90i:01019**
(Netuka, Ivan) *see* **Choquet, Gustave, 90e:01035**

Items listed otherwise than by author

Biography:
Green, George *see* **Lyubimov, Yu. A., 90i:01019**

31–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 31–04

Brebbia, C. A. (*with* Domínguez, Jose) ★ Boundary elements: an introductory course. **90a:73003**
Domínguez, Jose *see* **Brebbia, C. A., 90a:73003**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Andrievskiĭ, V. V. Constructive characterization of harmonic functions in domains with a quasiconformal boundary. **90h:31001**
Baernstein, Albert, II An extremal problem for certain subharmonic functions in the plane. **90k:31001**
Bonsall, F. F. (*with* Walsh, D.) Vanishing l^1-sums of the Poisson kernel, and sums with positive coefficients. **90m:31001**
Colonna, Flavia The Bloch constant of bounded harmonic mappings. **90k:31002**
Djebbar, Bachir *see* **Nguyen Thanh Van, 90f:31001**
Èĭderman, V. Ya. An exceptional set in asymptotic estimates of subharmonic functions. **90d:31001**
FitzGerald, Carl H. An extremal problem for harmonic functions. **90c:31001**
Gol′dberg, A. A. (*with* Sokolovskaya, O. P.) Growth on a ray of a subharmonic function with a mass that is distributed on the negative halfaxis. (Russian) **90c:31002**
Greenberg, Peter (*with* Porter, R. Michael) A homeomorphism of the circle extends to a harmonic diffeomorphism of the disk. **90d:31002**
Hayman, W. K. Exceptional sets in potential theory. (Spanish summary) **90i:31002**
Khabibullin, B. N. Lower bounds and homogeneity properties of subharmonic functions. (Russian) (*see* **90d:41001**)
Kondratyuk, A. A. The growth of integral q-means and a deficiency of functions that are subharmonic in $\mathbf{R}^m$. **90i:31003**
Levin, B. Ya. Subharmonic majorants and some applications. **90a:31001**
— Majorants in classes of subharmonic functions. (Russian) **90i:31004**
— The connection of a majorant with a conformal mapping. II. (Russian) **90m:31002**
— Classification of closed sets on **R** and representation of a majorant. III. (Russian) **90m:31003**
Mukhlisov, F. G. B-superharmonic functions. (Russian) (*see* **90d:00046**)
Nezhmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) **90b:31001**
Nguyen Thanh Van (*with* Djebbar, Bachir) Propriétés asymptotiques d'une suite orthonormale de polynômes harmoniques. (English summary) [Asymptotic properties of an orthonormal sequence of harmonic polynomials] **90f:31001**
Nguyen Xuan Loc Stochastic differentiation formula and convergence theorem for finely hypoharmonic functions. **90e:31001**
Pagani, Carlo Domenico On the harmonic moments of a plane domain. **90m:31004**
Pavlović, Miroslav Convolution in the harmonic Hardy class h^p with $0 < p < 1$. **90i:31005**
Porter, R. Michael *see* **Greenberg, Peter, 90d:31002**
Shvedenko, S. V. A theorem of Hardy-Littlewood type for subharmonic functions. (Russian) (*see* **90i:00006**)
Sokolovskaya, O. P. *see* **Gol′dberg, A. A., 90c:31002**
Vasil′kiv, Ya. V. Some properties of δ-subharmonic functions of finite λ-type. (Ukrainian. Russian summary) **90k:31003**
— Asymptotic behavior of δ-subharmonic functions of completely regular growth. (Ukrainian. Russian summary) (Not in MR)
Walker, James Stephan An elementary proof of a theorem of Lelong. **90g:31001**
Walsh, D. *see* **Bonsall, F. F., 90m:31001**
Wolf, Edwin Superharmonic functions and bounded point evaluations. **90h:31002**
Zabolotskiĭ, N. V. Regularity of the growth of Nevanlinna characteristics of subharmonic functions. (Ukrainian. Russian summary) (Not in MR)

Items with secondary classifications in 31A05

Duren, P. L. (*with* Schober, Glenn) Linear extremal problems for harmonic mappings of the disk. **90a:30025**
Eriksson-Bique, Sirkka-Liisa (*with* Leutwiler, Heinz) A generalization of parallel addition. **90h:47005**
Gao, Qi Ren Boundary limits of superharmonic functions. (Chinese. English summary) **90d:31003**
Globevnik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. **90e:44001**
Goldstein, Myron (*with* Ow, W. H.) Uniform harmonic approximation with continuous extension to the boundary. **90d:41033**
Herron, David A. Metric boundary conditions for plane domains. **90d:30062**
Leutwiler, Heinz *see* **Eriksson-Bique, Sirkka-Liisa, 90h:47005**
McConnell, Terry R. A conformal inequality related to the conditional gauge theorem. **90g:60072**
Ow, W. H. *see* **Goldstein, Myron, 90d:41033**
Rodin, Burt Schwarz's lemma for circle packings. II. **90m:11099**
Schober, Glenn *see* **Duren, P. L., 90a:30025**

31A10 Integral representations

Items with secondary classifications in 31A10

Huber, Alfred Konforme Verheftung und logarithmisches Potential. [Conformal sewing and logarithmic potential] **90g:30005**
Kaufman, Robert P. (*with* Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. **90h:35111**
Kondratyuk, A. A. The growth of integral q-means and a deficiency of functions that are subharmonic in $\mathbf{R}^m$. **90i:31003**
Levin, B. Ya. Majorants in classes of subharmonic functions. (Russian) **90i:31004**
Maz′ya, V. G. (*with* Solov′ev, A. A.) An integral equation of the Dirichlet problem in a plane domain with cusps on the boundary. (Russian) **90k:45010**
Nédélec, J.-C. Approximation of integral equations with nonintegrable kernels. **90b:65250**
Solov′ev, A. A. *see* **Maz′ya, V. G., 90k:45010**
Wu, Jang-Mei *see* **Kaufman, Robert P., 90h:35111**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Andrievskiĭ, V. V. Some classes of harmonic functions with singularities on a quasiconformal arc. **90i:31006**
Haliste, K. On an extremal configuration for capacity. **90i:31007**
Hsiao, George C. (*with* Kleinman, R. E.) On a unified characterization of capacity. **90g:31002**
Jones, Peter Wilcox (*with* Wolff, Thomas H.) Hausdorff dimension of harmonic measures in the plane. **90j:31001**
Kaneko, Hiroshi² (*with* Sakai, Akira) Mean values of harmonic functions and Brownian motion. (Japanese) (Not in MR)
Kleinman, R. E. *see* **Hsiao, George C., 90g:31002**
Lopes, Artur Oscar A note on δ-equilibrium measures for rational maps. **90i:31008**
Martio, O. Sets of zero elliptic harmonic measures. **90i:31009**
Sakai, Akira *see* **Kaneko, Hiroshi², (Not in MR)**
Wolff, Thomas H. *see* **Jones, Peter Wilcox, 90j:31001**

Items with secondary classifications in 31A15

Adams, David R. A note on Choquet integrals with respect to Hausdorff capacity. **90c:26028**

(**Ahlfors, L. V.**) *see* **Baernstein, Albert, II, 90h:30060**
Baernstein, Albert, II Ahlfors and conformal invariants. **90h:30060**
— An extremal problem for certain subharmonic functions in the plane. **90k:31001**
Bishop, Christopher J. (*with* Carleson, L.; Garnett, J. B.; Jones, Peter Wilcox) Harmonic measures supported on curves. **90d:30069**
Carleson, L. *see* **Bishop, Christopher J.; et al., 90d:30069**
Garnett, J. B. *see* **Bishop, Christopher J.; et al., 90d:30069**
Gol′dberg, A. A. (*with* Sokolovskaya, O. P.) Growth on a ray of a subharmonic function with a mass that is distributed on the negative halfaxis. (Russian) **90c:31002**
Jain, D. L. *see* **Sampath, C., 90a:45003**
Jerison, D. Harmonic measure in convex domains. **90h:31005**
Jones, Peter Wilcox *see* **Bishop, Christopher J.; et al., 90d:30069**
Kaufman, Robert P. (*with* Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. **90h:35111**
Ortel, Marvin (*with* Schneider, Walter J.) Uniqueness of bounded harmonic functions. **90c:31003**
Rohde, S. On an estimate of Makarov in conformal mapping. **90h:30022**
Sampath, C. (*with* Jain, D. L.) On solution of the integral equations for the potential problems of two circular-strips. **90a:45003**
Schneider, Walter J. *see* **Ortel, Marvin, 90c:31003**
Sokolovskaya, O. P. *see* **Gol′dberg, A. A., 90c:31002**
Solynin, A. Yu. Separation of continua by circles. (Russian) **90a:30015**
Wolf, Edwin Superharmonic functions and bounded point evaluations. **90h:31002**
Wu, Jang-Mei *see* **Kaufman, Robert P., 90h:35111**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Aikawa, Hiroaki Harmonic functions having no tangential limits. **90h:31003**
Gao, Qi Ren Boundary limits of superharmonic functions. (Chinese. English summary) **90d:31003**
Ortel, Marvin (*with* Schneider, Walter J.) Uniqueness of bounded harmonic functions. **90c:31003**
Schneider, Walter J. *see* **Ortel, Marvin, 90c:31003**

Items with secondary classifications in 31A20

Abu-Muhanna, Yusuf (*with* Lyzzaik, A. K.) The boundary behaviour of harmonic univalent maps. **90m:30044**
Bañuelos, Rodrigo (*with* Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. **90i:30002**
— (*with* Moore, Charles N.) Laws of the iterated logarithm, sharp good-λ inequalities and L^p-estimates for caloric and harmonic functions. **90k:42035**
— (*with* Moore, Charles N.) Sharp estimates for the nontangential maximal function and the Lusin area function in Lipschitz domains. **90i:42030**
Huber, Alfred Konforme Verheftung und logarithmisches Potential. [Conformal sewing and logarithmic potential] **90g:30005**
Lyzzaik, A. K. *see* **Abu-Muhanna, Yusuf, 90m:30044**
Mikhaĭlova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. **90d:35080**
Moore, Charles N. *see* **Bañuelos, Rodrigo, 90i:30002; 90i:42030** *and* **90k:42035**
Nezhmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) **90b:31001**

31A25 Boundary value and inverse problems

Davydov, A. G. *see* **Zakharov, E. V.; et al., 90i:31010**
Herold, H. Lösung einer inhomogenen Randwertaufgabe der Potentialtheorie. [Solution of an inhomogeneous boundary value problem of potential theory] (Not in MR)
Khaleeva, I. V. *see* **Zakharov, E. V.; et al., 90i:31010**
Skorokhodov, S. L. *see* **Vlasov, V. I., 90f:31004**
Transirico, Maria Dirichlet problem for the Laplace operator in a rectangle and in a strip. **90f:31002**
Vlasov, V. I. (*with* Volkov, D. B.) ★ Задача Дирихле в круге с угловым вырезом. (Russian) [The Dirichlet problem in a disk with a corner cut] **90f:31003**
— (*with* Skorokhodov, S. L.) ★ Аналитическое решение задачи Дирихле для уравнения Пуассона в одном классе полигональных областей. (Russian) [Analytic solution of the Dirichlet problem for the Poisson equation in a class of polygonal domains] **90f:31004**
Volkov, D. B. *see* **Vlasov, V. I., 90f:31003**
Zakharov, E. V. (*with* Davydov, A. G.; Khaleeva, I. V.) Integral equations with Hadamard-type kernels in diffraction problems. (Russian) **90i:31010**

Items with secondary classifications in 31A25

Freidkin, E. S. *see* **Freidkin, S. A., 90g:30041**
Freidkin, S. A. (*with* Freidkin, E. S.) On a boundary-value problem for harmonic functions. **90g:30041**
Kaufman, Robert P. (*with* Wu, Jang-Mei) Dirichlet problem of heat equation for C^2 domains. **90h:35111**
Kishkis, K. Yu. On the theory of nonlocal problems for the Laplace equation. **90c:35054**
— Letter to the editors: "The index of the Bitsadze-Samarskiĭ problem for harmonic functions" [Differentsial′nye Uravneniya **24** (1988), no. 1, 105–110; MR 89h:35092]. **90c:35062**
Kuznetsov, N. G. (*with* Maz′ya, V. G.) Unique solvability of a plane stationary problem connected with the motion of a body submerged in a fluid. **90c:76024**
— A two-dimensional problem on steady oscillations of a fluid in the presence of two semisubmerged cylinders. (Russian) **90c:76028**
Lewis, John L. (*with* Silver, Judy) Parabolic measure and the Dirichlet problem for the heat equation in two dimensions. **90e:35079**
Maz′ya, V. G. A boundary integral equation of the Dirichlet problem in a plane domain with a cusp at the boundary. (Russian) **90e:35045**
— *see also* **Kuznetsov, N. G., 90c:76024**
Ortel, Marvin (*with* Schneider, Walter J.) Uniqueness of bounded harmonic functions. **90c:31003**
Prilepko, A. I. An iterative-parametric method for solving a plane inverse problem of potential theory. (Russian) (*see* **90d:00020**)
Rundell, William Errata: "Some inverse problems for elliptic equations" [Appl. Anal. **28** (1988), no. 1, 67–78; MR 90b:35244]. **90b:35245**
Schneider, Walter J. *see* **Ortel, Marvin, 90c:31003**
Silver, Judy *see* **Lewis, John L., 90e:35079**
Wu, Jang-Mei An example on null sets of parabolic measures. **90e:35083**
— *see also* **Kaufman, Robert P., 90h:35111**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Aronsson, Gunnar (*with* Lindqvist, Peter) On p-harmonic functions in the plane and their stream functions. **90g:31003**
Cialdea, Alberto A completeness theorem for biharmonic polynomials in a field with angular boundary. (Italian. English summary) **90a:31002**
Lindqvist, Peter *see* **Aronsson, Gunnar, 90g:31003**
Novikov, V. V. On a qualitative property of the solutions of the biharmonic equation in the plane. (Russian) **90c:31004**

Items with secondary classifications in 31A30

Bonk, M. (*with* Wirths, K.-J.) Über Häufungsstellen stationärer Punkte. [On the limiting points of stationary points] **90i:30039**
Destuynder, Philippe (*with* Ousset, Y.; Stackler, C.) Sur les singularités de contraintes dans les joints collés. (English summary) [Remarks on the singular stresses arising at the extremities of an adhesive joint] **90d:73012**
Flavin, J. N. (*with* Knops, R. J.) Some convexity considerations for a two-dimensional traction problem. **90a:73029**
Horgan, C. O. Decay estimates for the biharmonic equation with applications to Saint-Venant principles in plane elasticity and Stokes flows. **90f:73012**
Knops, R. J. *see* **Flavin, J. N., 90a:73029**
Lions, P.-L. On the Schwarz alternating method. II. Stochastic interpretation and order properties. **90e:65140**
Mikhaĭlova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. **90d:35080**
Orël, V. R. Determination of free oscillations of an elastic plate by means of N-parametric eigenfunctions of a biharmonic operator. **90c:73078**
Ousset, Y. *see* **Destuynder, Philippe; et al., 90d:73012**
Stackler, C. *see* **Destuynder, Philippe; et al., 90d:73012**
Wirths, K.-J. *see* **Bonk, M., 90i:30039**

31A99 None of the above, but in this section

Mokin, Yu. I. Estimates for the derivatives of solutions of integral equations of potential theory. **90d:31004**
Nguyen Xuan Loc The relation between the bounded point derivation and the fine derivation. **90d:31005**
Shidfar, Afima Abdullah Lyapunov and Kellogg planes. (Persian) (*see* **90m:00045**)

Items with secondary classifications in 31A99

Michaliček, Johannes (*with* Wehrhahn, Rodolfo) Parametrization of domains in $\hat{\mathbf{C}}$: the logarithmic domains. **90k:30009**
Wehrhahn, Rodolfo *see* **Michaliček, Johannes, 90k:30009**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Akın, Ömer (*with* Çelebi, A. Okay) Generalized Cauchy-Riemann equations and the positive $\underset{\sim}{k}$-subharmonic functions. **90b:31002**
Armitage, David H. A uniqueness theorem for harmonic functions on half-spaces. **90e:31002**
Benyamini, Yoav (*with* Weit, Yitzhak) Functions satisfying the mean value property in the limit. **90a:31003**
Berenstein, Carlos A. (*with* Gay, Roger) Le problème de Pompeiu local. (English summary) [The local Pompeiu problem] **90c:31005**
Berglez, P. Zur Darstellung von verallgemeinerten biaxialsymmetrischen Potentialen. [On the representation of generalized biaxially symmetric potentials] **90g:31004**
Blasco De La Cruz, Oscar Vector-valued harmonic functions and cone absolutely summing operators. **90i:31011**
Burkholder, Donald L. Differential subordination of harmonic functions and martingales. **90k:31004**
Cámera, G. A. On a condition of thinness at infinity. **90d:31006**
Çelebi, A. Okay *see* **Akın, Ömer, 90b:31002**
Cialdea, Alberto On the oblique derivation problem for the Laplace equation, and related topics. (Italian. English summary) **90d:31007**
Domar, Yngve Uniform boundedness in families related to subharmonic functions. **90d:31008**
Dzhvarsheĭshvili, A. G. Various nontangent characteristics for harmonic functions. (Russian. English and Georgian summaries) (Not in MR)
Fryant, A. (*with* Shankar, Hari^1) Bounds on the maximum modulus of harmonic functions. **90i:31012**
Gardiner, Stephen J. Convexity and subharmonicity. **90i:31013**
— Local growth properties of superharmonic functions. **90m:31005**
Gay, Roger *see* **Berenstein, Carlos A., 90c:31005**
Globevnik, J. (*with* Rudin, Walter) A characterization of harmonic functions. **90a:31004**

Gong, Xian Zong Functions with the restricted mean value property. (Chinese. English summary) **90d:31009**

Gur′yanova, K. N. (*with* Plotnikova, L. A.) The use of a function of an isotropic vector in solving some three-dimensional problems in potential theory. (Russian) **90f:31005**

Herron, David A. (*with* Schiff, Joel L.) Positive harmonic functions and complete metrics. **90h:31004**

Jerison, D. Harmonic measure in convex domains. **90h:31005**

Khabibullin, B. N. Asymptotic approximation of subharmonic functions by subharmonic functions with special properties. (Russian) **90b:31003**

Leutwiler, Heinz On BMO and the torsion function. **90d:31010**

— On the Appell transformation. **90c:31006**

Maeda, Fumi-Yuki (*with* Suzuki, Noriaki) The integrability of superharmonic functions on Lipschitz domains. **90b:31004**

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Rashkovskiĭ, A. Yu. Growth and decrease of subharmonic functions in a cone. **90m:31006**

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Shankar, Hari[1] *see* **Fryant, A., 90i:31012**

Suzuki, Noriaki *see* **Maeda, Fumi-Yuki, 90b:31004**

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— *see also* **Benyamini, Yoav, 90a:31003**

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Armitage, David H. (*with* Goldstein, Myron) Characterizations of thin and semi-thin sets. **90k:31005**

Avanissian, Vazgain Sur le L-type du prolongement holomorphe des fonctions harmoniques entières. (English summary) [On the L-type of the complexification of entire harmonic functions] **90e:32002**

Baernstein, Albert, II Some topics in symmetrization. **90h:26022**

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Goldstein, Myron *see* **Armitage, David H., 90k:31005**

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Hayman, W. K. Ahlfors' theorem on asymptotic values and some developments from it. **90d:30084**

Rokhlin, Vladimir V. *see* **Greengard, L.**, (**90a:76040**)

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Shimomura, Katsunori The growth of the positive solutions of $Lu = 0$ near the boundary of an inner NTA domain. **90b:35017**

Yamaguchi, Hiroshi[1] Variations of pseudoconvex domains over $\mathbf{C}^n$. **90k:32059**

31B10 Integral representations

Grachev, N. V. (*with* Maz′ya, V. G.) Representations and estimates for inverse operators of integral equations of potential theory for surfaces with conic points. (Russian. English and Georgian summaries) **90i:31014**

Král, Josef The weak normal derivative of a simple layer potential with summable density. (Russian) **90m:31008**

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Angell, T. S. (*with* Kleinman, R. E.; Roach, G. F.) Iteration methods for potential problems. **90d:65225**

Barcelo, Tomeu A completely singular harmonic measure for a nondivergence form elliptic operator with a drift. **90e:31003**

Kleinman, R. E. *see* **Angell, T. S.; et al., 90d:65225**

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31B15 Potentials and capacities, extremal length

Armitage, David H. (*with* Goldstein, Myron) Characterizations of thin and semi-thin sets **90k:31005**

Barcelo, Tomeu A completely singular harmonic measure for a nondivergence form elliptic operator with a drift. **90e:31003**

Cherednichenko, V. G. Estimates for a gradient of Newton's mass potential. (Russian) **90e:31004**

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Defranceschi, Anneliese *see* **Dal Maso, Gianni, 90a:31005**

Dyakin, V. V. (*with* Raevskiĭ, V. Ya.) Properties of the operators of classical potential theory. (Russian) **90k:31006**

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— The problem of the minimum of the Green energy for three-dimensional capacitors. **90m:31011**

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Al-Cheikh Fattouh, Ramez Über die Stetigkeit von verallgemeinerten Wärmepotentialen. [On the continuity of generalized heat potentials] **90j:35100**

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Anderson, G. D. (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti) Inequalities for the extremal distortion function. **90e:30022**

— (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti) Special functions of quasiconformal theory. **90k:30032**

Aseev, V. V. (*with* Varisov, A. K.) Removable singularities of plane topological embeddings with bounded moduli distortion. (Russian) **90i:30029**

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Bykhovskiĭ, È. B. Orthogonal subspaces of the space of three-dimensional vectors that are square-integrable over an infinite domain. **90h:46060**

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31B20 Boundary value and inverse problems

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Bavrin, I. I. Integro-differential operators for harmonic functions in convex domains and their applications. (Russian) **90c:31007**

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Kapanadze, D. V. Solution of an inverse problem in potential theory in the case of piecewise-smooth domains. (Russian) **90c:31008**

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Kleinman, R. E. *see* **Angell, T. S.; et al., 90b:31007**
Kounchev, Ognyan Extremal problems for the distributed moment problem. **90f:31007**
Koval′chuk, V. F. *see* **Gomilko, A. M.; et al., 90h:31007**
Král, Josef *see* **Angell, T. S.; et al., 90b:31007**
Love, E. R. (*with* Miller, J. B.) On a method of Fabrikant, Sankar and Swamy for a generalized potential problem. **90b:31008**
Mair, B. A. (*with* Philipp, Stanton; Singman, David) A converse Fatou theorem. **90e:31006**
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Oganesyan, S. M. An inverse problem of potential theory in the space $L_p(S)$ and approximation of elements in $W_p^r(S)$ by differentiable compactly supported functions. **90c:31010**
Pagani, Carlo Domenico Determining a domain from its harmonic moments. (Italian summary) **90d:31016**
Pavlov, G. A. On the uniqueness of the solution of an abstract inverse problem. **90c:31011**
Philipp, Stanton *see* **Mair, B. A.; et al., 90e:31006**
Philippin, G. A. Some extensions of Dirichlet's and Thomson's principles for harmonic vectors. **90j:31002**
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Salsa, Sandro On an inverse problem for the Newtonian potential. **90h:31008**
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Wagenknecht, Niels Die zweite Randwertaufgabe der Potentialtheorie als duales Gegenstück zur ersten. [The second boundary value problem of potential theory as dual counterpart to the first one] **90h:31009**
Yarmukhamedov, Sh. An analogue of the Riemann-Volterra formula for harmonic functions of several variables. **90i:31017**

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Cherednichenko, V. G. Estimates for a gradient of Newton's mass potential. (Russian) **90e:31004**
Dassios, George (*with* Kleinman, R. E.) On Kelvin inversion and low-frequency scattering. **90i:35073**
Filar, Maria (*with* Szałajko, Krystyna) The Green's function and the boundary problem of the third kind for Poisson equation in the domain E_n^+. (Polish summary) **90e:35044**
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Kondrat′ev, V. A. (*with* Oleĭnik, O. A.) Estimates near the boundary for second-order derivatives of solutions of the Dirichlet problem for the biharmonic equation. (Italian summary) **90d:35079**
Kopylov, Yu. N. (*with* Sabel′fel′d, K. K.) ★ Некоторые приложения метода блуждания по границе. (Russian) [Some applications of the method of random walk along the boundary] **90c:65008**
March, Peter On a stability property of harmonic measures. **90f:60136**
Maz′ya, V. G. (*with* Nazarov, S. A.) Singularities of solutions of the Neumann problem at a conic point. **90k:35072**
Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. **90m:31010**
Nazarov, S. A. *see* **Maz′ya, V. G., 90k:35072**
Oleĭnik, O. A. *see* **Kondrat′ev, V. A., 90d:35079**
Sabel′fel′d, K. K. *see* **Kopylov, Yu. N., 90c:65008**
Strakhov, V. N. Analytic continuation and a solution of an inverse problem in gravimetry. (Russian) **90g:86009**
Szałajko, Krystyna *see* **Filar, Maria, 90e:35044**
Uchiyama, Kôhei A probabilistic proof and applications of Wiener's test for the heat operator. **90b:60099**

31B25 Boundary behavior

Aleksandrov, V. A. Unique determination of domains with non-Jordan boundaries. **90d:31017**
Burys, Stanisław (*with* Polit-Gancarczyk, Elżbieta) On the theorem of Fatou for the biharmonic problem in a half-space. **90i:31018**
Gardiner, Stephen J. Minimal harmonic functions on Denjoy domains. **90c:31013**
Mair, B. A. (*with* Philipp, Stanton; Singman, David) Generalized local Fatou theorems and area integrals. **90m:31013**
Ohtsuka, Makoto On weighted extremal length of families of curves. **90b:31009**
Philipp, Stanton *see* **Mair, B. A.; et al., 90m:31013**
Polit-Gancarczyk, Elżbieta *see* **Burys, Stanisław, 90i:31018**
Singman, David *see* **Mair, B. A.; et al., 90m:31013**

Items with secondary classifications in 31B25

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Bendikov, A. D. (*with* Pavlov, I. V.) Spaces of harmonic functions with martingale mixed norm. **90h:60066**
Heinonen, Juha Boundary accessibility and elliptic harmonic measures. **90i:31015**
Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. **90a:60133**
Kazaryan, K. S. The Dirichlet problem in a weighted metric for a ball in $\mathbf{R}^n$, $n \geq 3$. **90a:35096**
Krotov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) **90h:42030**
Mair, B. A. (*with* Philipp, Stanton; Singman, David) A converse Fatou theorem on homogeneous spaces. **90i:43008**
Pavlov, I. V. *see* **Bendikov, A. D., 90h:60066**
Philipp, Stanton *see* **Mair, B. A.; et al., 90i:43008**
Pipher, Jill Oblique derivative problems for the Laplacian in Lipschitz domains. **90g:35040**
Singman, David *see* **Mair, B. A.; et al., 90i:43008**

31B30 Biharmonic and polyharmonic equations and functions

Cohen, Jonathan BMO estimates for biharmonic multiple layer potentials. **90d:31018**
Kounchev, Ognyan Mean value property for biharmonic functions characterizing the annulus. **90e:31007**
Nguyen Thanh Van Bases polynomiales et approximation des fonctions séparément harmoniques dans $\mathbf{C}^\nu$. (English summary) [Polynomial bases and approximation of separately harmonic functions in $\mathbf{C}^\nu$] **90k:31008**
Shidfar, Afima Abdullah On the representation of x, y, z and r^2-forms of a biharmonic function in terms of two harmonic functions and its applications to the Papkovich representation. **90d:31019**
Shīpka, İ. G. Properties of a fundamental solution of a fourth-order metaharmonic equation in a Riemannian space. (Ukrainian. Russian summary) (Not in MR)
Vidalis, Theodor Harmonic and polyharmonic functions. **90g:31006**

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Dalmasso, Robert Solutions positives globales d'une équation biharmonique sur-linéaire. (English summary) [Entire positive solutions of a superlinear biharmonic equation] **90h:35017**
Dzhvarsheĭshvili, A. G. Nontangential maximal functions for biharmonic functions. (Russian) **90e:42035**
Karpeshina, Yu. E. Perturbation theory for a polyharmonic operator with a nonsmooth periodic potential. (Russian. English summary) **90c:35067**
Kondrat′ev, V. A. (*with* Oleĭnik, O. A.) Estimates near the boundary for second-order derivatives of solutions of the Dirichlet problem for the biharmonic equation. (Italian summary) **90d:35079**
Lesky, P., Jr. Zur Charakterisierung von Lösungen polyharmonischer Gleichungen im Ganzraum. [On the characterization of solutions of polyharmonic equations in the entire space] **90f:35061**
Oleĭnik, O. A. *see* **Kondrat′ev, V. A., 90d:35079**
Polit-Gancarczyk, Elżbieta *see* **Burys, Stanisław, 90i:31018**

31B35 Connections with differential equations

Atakhodzhaev, M. A. Nonuniqueness of the solution of an ill-posed problem for the biharmonic equation. **90m:31014**
Lindqvist, Peter On p-harmonic functions in the complex plane and curvature. **90d:31020**

Items with secondary classifications in 31B35

Brown, Russell M. The method of layer potentials for the heat equation in Lipschitz cylinders. **90d:35118**
— The initial-Neumann problem for the heat equation in Lipschitz cylinders. **90k:35112**
Domar, Yngve Uniform boundedness in families related to subharmonic functions. **90d:31008**
Heinonen, Juha (*with* Kilpeläinen, Tero) Polar sets for supersolutions of degenerate elliptic equations. **90g:31007**
Kilpeläinen, Tero Potential theory for supersolutions of degenerate elliptic equations. **90e:35061**
— *see also* **Heinonen, Juha, 90g:31007**
Landis, E. M. Positive harmonic functions. (Russian) **90e:35048**

31B99 None of the above, but in this section

Heinonen, Juha (*with* Kilpeläinen, Tero; Rossi, John) The growth of $\mathscr{A}$-subharmonic functions and quasiregular mappings along asymptotic paths. **90j:31003**
Kilpeläinen, Tero *see* **Heinonen, Juha; et al., 90j:31003**
Muramoto, Katsushi Harmonic Bloch and BMO functions on the unit ball in several variables. **90a:31006**
Rossi, John *see* **Heinonen, Juha; et al., 90j:31003**

Items with secondary classifications in 31B99

Bedford, E. (*with* Taylor, B. A.) Uniqueness for the complex Monge-Ampère equation for functions of logarithmic growth. **90i:32025**
Davies, E. B. (*with* Rothaus, O. S.) Markov semigroups on C^*-bundles. **90i:58217**
Nezhmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions in an annulus. (Russian) **90b:31001**
Rothaus, O. S. *see* **Davies, E. B., 90i:58217**
Taylor, B. A. *see* **Bedford, E., 90i:32025**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Chen, Wen Yi Log subharmonic functions and weighted Carleman inequalities. (Chinese. English summary) **90d:31021**
Higuti, Isao La balayabilité au sens fort des noyau-fonctions continues du potentiel. [Strong balayageability of continuous function-kernels of the potential] **90c:31014**
Kilpeläinen, Tero Polar sets in a nonlinear potential theory. **90d:31022**
Meyer, Michael Kurt Balayage spaces on topological sums. **90d:31023**
Müller, Hans-Helge Subordination for balayage spaces. **90c:31015**
Rashkovskiĭ, A. Yu. Integral representation of subharmonic functions of finite order in a cone. **90i:31019**
Riihentaus, Juhani On a theorem of Avanissian-Arsove. **90d:31024**
Shamgunov, Sh. D. Limit relations for partial derivatives of a wave potential of a simple layer and their applications. (Russian) **90i:31020**
Sjödin, Tord Nonlinear potential theory in Lebesgue spaces with mixed norm. **90d:31025**
Vodop′yanov, S. K. Potential theory on homogeneous groups. **90h:31010**

Items with secondary classifications in 31C05

Aikawa, Hiroaki On weighted Beppo Levi function. **90e:46007**

Alexopoulos, Georges Quelques propriétés des fonctions harmoniques positives sur les groupes de Lie résolubles à croissance polynomiale du volume. (English summary) [Some properties of positive harmonic functions on solvable Lie groups of polynomial growth] **90c:22027**
Andrievskiĭ, V. V. Some classes of harmonic functions with singularities on a quasiconformal arc. **90i:31006**
Conze, Jean-Pierre (*with* Raugi, Albert) Fonctions μ-harmoniques et méthodes probabilistes d'approximation. (English summary) [μ-harmonic functions and probabilistic methods of approximation] **90d:60011**
Garofalo, Nicola (*with* Lanconelli, Ermanno) Asymptotic behavior of fundamental solutions and potential theory of parabolic operators with variable coefficients. **90i:35040**
Grigor′yan, A. A. Stochastically complete manifolds and summable harmonic functions. **90a:58189**
Lanconelli, Ermanno *see* **Garofalo, Nicola, 90i:35040**
Li, Am Gil (*with* Mal′tsev, V. M.) ★ Гармонические функции на группе SU(n). (Russian) [Harmonic functions on the group SU(n)] **90g:22014**
Mal′tsev, V. M. *see* **Li, Am Gil, 90g:22014**
Raugi, Albert *see* **Conze, Jean-Pierre, 90d:60011**
Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. **90d:60012**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Atakhodzhaev, M. A. (*with* Irgashev, M. Kh.) Zeros of periodic pluriharmonic functions in $2n$-dimensional spaces. (Russian) **90k:31009**
Irgashev, M. Kh. *see* **Atakhodzhaev, M. A., 90k:31009**

Items with secondary classifications in 31C10

Agranovskiĭ, M. L. (*with* Aĭzenberg, L. A.) Reconstruction of holomorphic and pluriharmonic functions in circular domains from values on the torus. **90g:32019**
Aĭzenberg, L. A. *see* **Agranovskiĭ, M. L., 90g:32019**
Bedford, E. (*with* Taylor, B. A.) Plurisubharmonic functions with logarithmic singularities. (French summary) **90f:32016**
— (*with* Demailly, Jean-Pierre) Two counterexamples concerning the pluri-complex Green function in $\mathbf{C}^n$. **90d:32033**
Demailly, Jean-Pierre *see* **Bedford, E., 90d:32033**
Dzhrbashyan, A. È. (*with* Karapetyan, A. O.) Integral inequalities between conjugate pluriharmonic functions in multidimensional domains. **90e:30034**
Fornæss, J. E. (*with* Wiegerinck, Jan) Approximation of plurisubharmonic functions. **90i:32026**
Graham, Carl (*with* Lee, John M.) Smooth solutions of degenerate Laplacians on strictly pseudoconvex domains. **90c:32031**
Karapetyan, A. O. *see* **Dzhrbashyan, A. È., 90e:30034**
Kołodziej, S. The logarithmic capacity in $\mathbf{C}^n$. **90f:32017**
Lee, John M. *see* **Graham, Carl, 90c:32031**
Słodkowski, Zbigniew Pseudoconvex classes of functions. II. Affine pseudoconvex classes on $\mathbf{R}^N$. **90m:32035**
Suzuki, Makoto The singular Dirichlet problem for the complex Monge-Ampère operator on complex manifolds. **90c:32025**
Taylor, B. A. *see* **Bedford, E., 90f:32016**
Wiegerinck, Jan *see* **Fornæss, J. E., 90i:32026**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Items with secondary classifications in 31C12

Ballmann, Werner On the Dirichlet problem at infinity for manifolds of nonpositive curvature. **90j:53059**

31C15 Potentials and capacities

Heinonen, Juha (*with* Kilpeläinen, Tero) Polar sets for supersolutions of degenerate elliptic equations. **90g:31007**
Kilpeläinen, Tero *see* **Heinonen, Juha, 90g:31007**
Vodop′yanov, S. K. Potential theory on homogeneous groups. **90b:31010**
Watanabe, Hisako Decomposition of a continuous function-kernel. **90i:31021**
Zoriĭ, N. V. A problem of minimum energy for space condensers and Riesz kernels. **90c:31016**

Items with secondary classifications in 31C15

Feyel, Denis (*with* de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - u\mu = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - u\mu = 0$, where μ is a positive measure] **90j:35074**
Kanda, Mamoru A remark on capacitary measures for diffusion processes. **90f:60135**
Kołodziej, S. The logarithmic capacity in $\mathbf{C}^n$. **90f:32017**
de La Pradelle, Arnaud *see* **Feyel, Denis, 90j:35074**
Nogin, V. A. A method for the inversion and description of Bessel potentials with L_p-densities. (Russian) **90g:46055**
Overholt, Marius (*with* Schober, Glenn) Transfinite extent. **90m:30028**
Schober, Glenn *see* **Overholt, Marius, 90m:30028**
Stoll, M. Rate of growth of pth means of invariant potentials in the unit ball of $\mathbf{C}^n$. **90j:32037**

31C20 Discrete potential theory and numerical methods

Kayano, Takashi (*with* Yamasaki, Maretsugu) Discrete Dirichlet integral formula. **90c:31017**
Picardello, Massimo A. (*with* Woess, Wolfgang) A converse to the mean value property on homogeneous trees. **90c:31018**
Woess, Wolfgang *see* **Picardello, Massimo A., 90c:31018**
Yamasaki, Maretsugu *see* **Kayano, Takashi, 90c:31017**

Items with secondary classifications in 31C20

Kayano, Takashi (*with* Yamasaki, Maretsugu) The equation $\Delta u = qu$ on an infinite network. **90b:39011**

31C25 Dirichlet spaces

Items with secondary classifications in 31C25

Albeverio, S. (*with* Röckner, M.) Dirichlet forms, quantum fields and stochastic quantization. **90j:81097**
Kolsrud, Torbjörn Gaussian random fields, infinite-dimensional Ornstein-Uhlenbeck processes, and symmetric Markov processes. **90b:60044**
Röckner, M. *see* **Albeverio, S., 90j:81097**
Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] **90j:43005**
Wagenknecht, Niels Die zweite Randwertaufgabe der Potentialtheorie als duales Gegenstück zur ersten. [The second boundary value problem of potential theory as dual counterpart to the first one] **90h:31009**

31C35 Martin boundary theory [see also 60J50]

Nakai, Mitsuru (*with* Tada, Toshimasa) Nonmonotoneity of Picard dimensions. **90g:31008**
— Comparison of Martin boundaries for Schrödinger operators. **90h:31011**
Tada, Toshimasa Martin compactifications of the punctured disk with close to rotation free densities. **90c:31019**
— *see also* **Nakai, Mitsuru, 90g:31008**

Items with secondary classifications in 31C35

Cranston, M. (*with* Fabes, E. B.; Zhao, Zhong Xin) Conditional gauge and potential theory for the Schrödinger operator. **90a:60135**
Epstein, C. L. Positive harmonic functions on abelian covers. **90c:30074**
Fabes, E. B. *see* **Cranston, M.; et al., 90a:60135**
Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. **90a:60133**
Picardello, Massimo A. (*with* Woess, Wolfgang) Harmonic functions and ends of graphs. **90b:60101**
— (*with* Woess, Wolfgang) A converse to the mean value property on homogeneous trees. **90c:31018**
Woess, Wolfgang *see* **Picardello, Massimo A., 90b:60101** *and* **90c:31018**
Zhao, Zhong Xin *see* **Cranston, M.; et al., 90a:60135**

31C99 None of the above, but in this section

Kayano, Takashi (*with* Yamasaki, Maretsugu) Some properties of Royden boundary of an infinite network. **90m:31015**
Kilpeläinen, Tero The inclusion of $O_{HB} \subset O_{HD}$ for n-harmonic functions. (Polish summary) **90d:31026**
Martio, O. ★ Potential theoretic aspects of nonlinear elliptic partial differential equations. **90h:31012**
Okada, Masami Symbolic calculus applied to convex functions and associated diffusions. **90j:31004**
Yamasaki, Maretsugu *see* **Kayano, Takashi, 90m:31015**

Items with secondary classifications in 31C99

Heinonen, Juha (*with* Kilpeläinen, Tero; Rossi, John) The growth of $\mathscr{A}$-subharmonic functions and quasiregular mappings along asymptotic paths. **90j:31003**
Kilpeläinen, Tero *see* **Heinonen, Juha; et al., 90j:31003**
Lehtola, Pasi Axiomatic potential theory associated with quasiconformal mappings. (Polish summary) **90d:31028**
Rossi, John *see* **Heinonen, Juha; et al., 90j:31003**
Sugita, Hiroshi Positive generalized Wiener functions and potential theory over abstract Wiener spaces. **90c:60036**
Woess, Wolfgang Harmonic functions on infinite graphs. (Italian summary) **90c:60008**

31D05 Axiomatic potential theory

Ben Saad, Hedi (*with* Janssen, Klaus) A characterization of elementary potential theory. **90m:31016**
Bliedtner, Jürgen (*with* Hansen, Wolfhard) Approximation by continuous potentials. **90g:31009**
Boboc, N. (*with* Bucur, Gh.) Potentials in standard H-cones of functions. **90c:31020**
Bucur, Gh. *see* **Boboc, N., 90c:31020**
Cornea, Aurel A characterization of the fine sheaf property. **90g:31010**
Eriksson-Bique, Sirkka-Liisa Hyperharmonic cones. **90e:31008**
— Representations of hyperharmonic cones. **90a:31007**
Hansen, Wolfhard *see* **Bliedtner, Jürgen, 90g:31009**
Hmissi, Mohamed Cones de potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] **90k:31010**
Ikegami, Teruo The Dirichlet problem on ends. **90f:31008**
— On the boundary behavior of harmonic morphisms at the boundary of compactifications of Martin type. **90a:31008**
Janssen, Klaus *see* **Ben Saad, Hedi, 90m:31016**
Kesel′man, D. G. Harnack inequality and some characteristics of nonregular points of simplexes. **90d:31027**

Kröger, Pawel Harmonic spaces associated with parabolic and elliptic differential operators. **90k:31011**
de La Pradelle, Arnaud Sur certaines perturbations de résolvantes. (English summary) [On some perturbations of resolvents] **90i:31022**
Lehtola, Pasi The obstacle problem in a nonlinear potential theory. **90c:31021**
— Axiomatic potential theory associated with quasiconformal mappings. (Polish summary) **90d:31028**
Maagli, Habib Perturbation and excessive functions. **90f:31009**
Maeda, Fumi-Yuki Capacities on harmonic spaces with adjoint structure. **90f:31010**
— Removability of polar sets for energy finite harmonic functions on harmonic spaces with adjoint structure. **90m:31017**
Popa, Eugen Morphisms of Stonian cones. **90d:31029**
— Morphisms of H-cones and specific order. **90h:31013**
Popa, Liliana Dirichlet-finite harmonic functions on standard H-cones. I. (Romanian summary) **90a:31009**
Wittmann, Rainer Green function and uniform Harnack inequality. **90f:31011**
Wu, Jiong Qi Continuous functions on FO-sets in harmonic spaces. (Chinese. English summary) **90h:31014**

Items with secondary classifications in 31D05

Beznea, Lucian Ultrapotentials and positive eigenfunctions for an absolutely continuous resolvent of kernels. **90d:60064**
Kayano, Takashi (*with* Yamasaki, Maretsugu) Some properties of Royden boundary of an infinite network. **90m:31015**
Watanabe, Hisako Decomposition of a continuous function-kernel. **90i:31021**
Yamasaki, Maretsugu *see* **Kayano, Takashi, 90m:31015**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 32–00

Items listed otherwise than by author

Reviews in complex analysis ★ Reviews in complex analysis 1980–86. Vol. 1–4. **90b:00013**

32–01 Elementary exposition; textbooks

(Akhiezer, D. N.) *see* **Grauert, Hans, 90h:32001**
Candelas, P. Lectures on complex manifolds. **90i:32001**
Grauert, Hans (*with* Remmert, R.) ★ Теория пространств Штейна. (Russian) [Theory of Stein spaces] **90h:32001**
Hironaka, Heisuke (*with* Urabe, Tohsuke) ★ Kaiseki kukan nyumon. (Japanese) [Introduction to analytic spaces] **90g:32001**
(Onishchik, A. L.) *see* **Grauert, Hans, 90h:32001**
Remmert, R. *see* **Grauert, Hans, 90h:32001**
Urabe, Tohsuke *see* **Hironaka, Heisuke, 90g:32001**

Items with secondary classifications in 32–01

(McArthur, I. N.) *see* **Schlichenmaier, Martin, 90c:32033**
Schlichenmaier, Martin ★ An introduction to Riemann surfaces, algebraic curves and moduli spaces. **90c:32033**
Yang, Kichoon ★ Compact Riemann surfaces and algebraic curves. **90e:14023**

32–02 Advanced exposition (research surveys, monographs, etc.)

(Favorov, S. Yu.) *see* **Lelong, Pierre, 90i:32002**
Gruman, L. *see* **Lelong, Pierre, 90i:32002**
Guaraldo, Francesco (*with* Macrì, Patrizia; Tancredi, Alessandro) ★ Topics on real analytic spaces. **90j:32001**
Khenkin, G. M. (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002a**
— (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002b**
Leiterer, Jürgen *see* **Khenkin, G. M., 90h:32002a** *and* **90h:32002b**
Lelong, Pierre (*with* Gruman, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] **90i:32002**
Macrì, Patrizia *see* **Guaraldo, Francesco; et al., 90j:32001**
(Ronkin, L. I.) *see* **Lelong, Pierre, 90i:32002**
(Russakovskiĭ, A. M.) *see* **Lelong, Pierre, 90i:32002**
Tancredi, Alessandro *see* **Guaraldo, Francesco; et al., 90j:32001**

Items with secondary classifications in 32–02

Bierstone, Edward (*with* Milman, Pierre D.) ★ The local geometry of analytic mappings. **90j:32011**
(Magnus, Wilhelm) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Milman, Pierre D. *see* **Bierstone, Edward, 90j:32011**
Salamon, Simon ★ Riemannian geometry and holonomy groups. **90g:53058**
(Shenitzer, A.) *see* **Siegel, C. L., 90h:30002** *and* **90h:30003**
Siegel, C. L. ★ Topics in complex function theory. Vol. I. **90h:30002**
— ★ Topics in complex function theory. Vol. II. **90h:30003**
(Solitar, D.) *see* **Siegel, C. L., 90h:30002**
Taiani, Geraldine ★ Cauchy-Riemann (CR) manifolds. **90h:32047**
(Tretkoff, M.) *see* **Siegel, C. L., 90h:30003**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

Kleiman, Steven The development of intersection homology theory. **90m:01045**

32–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 32–04

Cucker, Felipe (*with* Pardo, L. M.; Raimondo, M.; Recio Muñiz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. **90j:14020**
Gerdt, V. P. (*with* Kostov, N. A.; Kostova, Z. T.) Computer algebra and computation of Puiseux expansions of algebraic functions. **90m:14023**
Kostov, N. A. *see* **Gerdt, V. P.; et al., 90m:14023**
Kostova, Z. T. *see* **Gerdt, V. P.; et al., 90m:14023**
Pardo, L. M. *see* **Cucker, Felipe; et al., 90j:14020**
Raimondo, M. *see* **Cucker, Felipe; et al., 90j:14020**
Recio Muñiz, Tomás J. *see* **Cucker, Felipe; et al., 90j:14020**
Roy, M.-F. *see* **Cucker, Felipe; et al., 90j:14020**

32–06 Proceedings, conferences, etc.

(Dolbeault, Pierre) *see* **Seminar: Lelong–Dolbeault–Skoda, Analysis, 90m:32002**
(Galbiati, Margherita) *see* **Real analytic and algebraic geometry, 90k:32001**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 90m:32001**
(Gauthier, Paul M.) *see* **Several complex variables, 90j:32003**
(Gindikin, S. G.) *see* **Several complex variables, 90k:32002**
(Khenkin, G. M.) *see* **Several complex variables, 90k:32002**
(Kwak, Do Y.) *see* **Analysis and geometry, 90f:32001**
(Lee, Sungyun) *see* **Analysis and geometry, 90f:32001**
(Leiterer, Jürgen) *see* **Several complex variables, 90k:32002**
(Lelong, Pierre) *see* **Seminar: Lelong–Dolbeault–Skoda, Analysis, 90m:32002**
(Nunemacher, Jeffrey) *see* **Several complex variables, 90k:32002**
(Randell, R.) *see* **Singularities, 90a:32002**
(Skoda, H.) *see* **Seminar: Lelong–Dolbeault–Skoda, Analysis, 90m:32002**
(Tognoli, A.) *see* **Real analytic and algebraic geometry, 90k:32001**
(Vitushkin, A. G.) *see* **Several complex variables, 90j:32003**

Items listed otherwise than by author

Analysis and geometry ★ Analysis and geometry 1987. **90f:32001**
Colloquium:
  Hodge Theory ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] **90j:32002**
Complex analysis and mathematical physics ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] **90h:32003**
Conference:
  Real Analytic and Algebraic Geometry ★ Real analytic and algebraic geometry. **90k:32001**
  Singularities ★ Singularities. **90a:32002**
Contemporary Mathematics ★ Singularities. **90a:32002**
Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 54. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 54] **90m:32001**
Encyclopaedia of Mathematical Sciences ★ Several complex variables. I. **90j:32003**
— ★ Several complex variables. IV. **90k:32002**
Geometry of moduli spaces and 4-dimensional manifolds ★ Moduli kukan noki nan to 4 jikan tayotai. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] **90a:32001**
Iowa City, IA ★ Singularities. **90a:32002**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 54. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 54] **90m:32001**
Krasnoyarsk ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] **90h:32003**
Lecture Notes in Mathematics ★ Séminaire d'Analyse P. Lelong–P. Dolbeault–H. Skoda. Années 1985/1986. (French) [P. Lelong–P. Dolbeault–H. Skoda Seminar on Analysis. 1985/1986] **90m:32002**
— ★ Real analytic and algebraic geometry. **90k:32001**
Luminy ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] **90j:32002**
Proceedings:
  Colloquium on Hodge Theory ★ Actes du Colloque de Théorie de Hodge. [Proceedings of the Colloquium on Hodge Theory] **90j:32002**
Real analytic and algebraic geometry ★ Real analytic and algebraic geometry. **90k:32001**
School-Seminar:
  Complex Analysis and Mathematical Physics ★ Комплексный анализ и математическая физика. (Russian) [Complex analysis and mathematical physics] **90h:32003**
Seminar:
  Geometry of Moduli Spaces and 4-Dimensional Manifolds ★ Moduli kukan noki nan to 4 jikan tayotai. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifolds. II] **90a:32001**

Seminar: (*cont'd.*)
  Lelong–Dolbeault–Skoda, Analysis ★ Séminaire d'Analyse P. Lelong–P. Dolbeault–H. Skoda. Années 1985/1986. (French) [P. Lelong–P. Dolbeault–H. Skoda Seminar on Analysis. 1985/1986] **90m:32002**
Several complex variables ★ Several complex variables. I. **90j:32003**
— ★ Several complex variables. IV. **90k:32002**
Singularities ★ Singularities. **90a:32002**
Taejŏn ★ Analysis and geometry 1987. **90f:32001**
Trento ★ Real analytic and algebraic geometry. **90k:32001**
Workshop:
  Analysis and Geometry ★ Analysis and geometry 1987. **90f:32001**

Items with secondary classifications in 32–06

(Adnadjević, Dušan) *see* **Symposium: Complex Analysis and Applications, 90j:30001**
(Vesentini, Edoardo) *see* **Complex geometry and analysis, 90m:00034**
(Villani, V.) *see* **Complex geometry and analysis, 90m:00034**

Items listed otherwise than by author

Complex geometry and analysis ★ Complex geometry and analysis. **90m:00034**
Hercegnovi ★ Third International Symposium on Complex Analysis and Applications. **90j:30001**
Lecture Notes in Mathematics ★ Complex geometry and analysis. **90m:00034**
Pisa ★ Complex geometry and analysis. **90m:00034**
Several aspects of algebraic analysis ★ Daisui kaisekigaku no shoso. (Japanese) [Several aspects of algebraic analysis] **90b:58002**
Symposium:
  Complex Analysis and Applications ★ Third International Symposium on Complex Analysis and Applications. **90j:30001**
  Complex Geometry and Analysis ★ Complex geometry and analysis. **90m:00034**
  Several Aspects of Algebraic Analysis ★ Daisui kaisekigaku no shoso. (Japanese) [Several aspects of algebraic analysis] **90b:58002**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Choi, U Jin *see* **Kwak, Do Y., 90j:32005**
Daoud, Suzanne On the class of integral functions represented by Dirichlet series of several complex variables having finite growth. **90i:32003**
Grechanyuk, N. I. Behavior of the maximum term of a multiple Dirichlet series that represents an entire function. **90j:32004**
Ibragimov, G. I. Absolute convergence of multiple series of exponentials that represent functions that are analytic in a multipolygon. (Russian. English and Azerbaijani summaries) **90m:32003**
— Convergence of a double Dirichlet series in a product of closed polygons. **90b:32001**
Kwak, Do Y. (*with* Choi, U Jin) Exponentiation of holomorphic functions. **90j:32005**
Lê Hai Khôi On representing systems for functions of several variables. **90a:32003**
Leĭnartas, E. K. The Hadamard multidimensional composition and sums with linear constraints on summation indices. **90f:32002**

Items with secondary classifications in 32A05

Cucker, Felipe (*with* Gonzalez Corbalan, Antonio) An alternate proof of the continuity of the roots of a polynomial. **90h:12003**
Elin, M. M. Generalization of the Hurwitz composition. **90c:32021**
Gonzalez Corbalan, Antonio *see* **Cucker, Felipe, 90h:12003**
Juneja, O. P. (*with* Sinha, Amritasu Kumar) On the coefficients of entire series of several complex variables. **90e:32003**
Lê Hai Khôi Espaces conjugués ensembles faiblement suffisants discrets et systèmes de représentation exponentielle. [Adjoint spaces, discrete weakly sufficient sets and systems of exponential representation] **90k:46050**
Salimov, F. G. The mean square value of entire functions that are represented by multiple Dirichlet series. (Russian. English and Azerbaijani summaries) **90h:30069**
Sinha, Amritasu Kumar On the growth of a class of plurisubharmonic functions in a unit disc. **90k:32056**
— *see also* **Juneja, O. P., 90e:32003**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Barrett, D. E. (*with* Bedford, E.; Dadok, Jiri) T^n-actions on holomorphically separable complex manifolds. **90k:32003**
Bedford, E. *see* **Barrett, D. E.; et al., 90k:32003**
Dadok, Jiri *see* **Barrett, D. E.; et al., 90k:32003**
Nikitina, T. N. An analogue of Carleman's formula in the future tube. **90c:32001**
Yin, Wei Ping New phenomena on bounded nonhomogeneous domains. **90f:32003**

Items with secondary classifications in 32A07

Abdurakhmanov, R. Some classes of holomorphic functions. (Russian. Tajiki summary) **90a:32005**
Agranovskiĭ, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. **90c:32048**
— (*with* Aĭzenberg, L. A.) Reconstruction of holomorphic and pluriharmonic functions in circular domains from values on the torus. **90g:32019**
Aĭzenberg, L. A. *see* **Agranovskiĭ, M. L., 90g:32019**
Boas, Harold P. (*with* Straube, Emil J.) Complete Hartogs domains in $\mathbf{C}^2$ have regular Bergman and Szegő projections. **90h:32052**
Burbea, J. Functional Banach spaces of holomorphic functions on Reinhardt domains. **90f:46043**
Carmichael, Richard D. Distributional and L^2 boundary values on the topological boundary of tubes. **90h:46075**
Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Proper holomorphic maps between Reinhardt domains and strictly pseudoconvex domains. **90i:32036**
Faraut, J. (*with* Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric cones] **90a:22010**
Fornæss, J. E. (*with* Wiegerinck, Jan) Approximation of plurisubharmonic functions. **90i:32026**
Geatti, Laura Holomorphic automorphisms of the tube domain over the Vinberg cone. (Italian summary) **90b:32060**
Isaev, A. V. Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. **90m:32042**
— (*with* Mishchenko, M. A.) Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. **90b:32047**
Kazaryan, M. V. Holomorphic continuation of functions with pluripolar singularities. (Russian. Armenian summary) **90g:32016**
Korányi, A. *see* **Faraut, J., 90a:22010**
Mishchenko, M. A. *see* **Isaev, A. V., 90b:32047**
Pathak, R. S. (*with* Paul, A. C.) Distributional boundary values in $(S^{a_k})'$-spaces of functions analytic in tubular radial domains. **90d:46066**
— (*with* Paul, A. C.) Distributional boundary values in $(W_M^\Omega)'$-spaces of functions holomorphic in tube domains. **90m:46073**
Patrizio, Giorgio On the convexity of the Kobayashi indicatrix. **90c:32036**
Paul, A. C. *see* **Pathak, R. S., 90d:46066** *and* **90m:46073**
Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 90i:32036**
Salinas, Norberto (*with* Sheu, Albert Jeu-Liang; Upmeier, Harald) Toeplitz C^*-algebras over pseudoconvex Reinhardt domains. **90f:47036**
Sergeev, A. G. The Lindelöf theorem, and pseudoconvex neighborhoods for the future tube. (Russian) **90c:32009**
Sharonov, S. È. Classification of groups of biholomorphic automorphisms of analytic polyhedra. **90b:32061**
Sheu, Albert Jeu-Liang *see* **Salinas, Norberto; et al., 90f:47036**
Straube, Emil J. Interpolation between Sobolev and between Lipschitz spaces of analytic functions on starshaped domains. **90c:46036**
— *see also* **Boas, Harold P., 90h:32052**
Upmeier, Harald *see* **Salinas, Norberto; et al., 90f:47036**
Wiegerinck, Jan *see* **Fornæss, J. E., 90i:32026**
Xu, Yi Chao On the classification of the homogeneous bounded domains. **90i:32044**
Yin, Wei Ping Invariant metrics and invariant functions on the Reinhardt domains. **90k:32073**
Zav′yalov, B. I. Asymptotic properties of functions that are holomorphic in tubular cones. **90b:32015**
Znamenskiĭ, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. **90e:32001**

32A10 Holomorphic functions

Arai, Hitoshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. **90m:32004**
Dovbush, P. V. On the Lindelöf theorem in $\mathbf{C}^n$. **90b:32002**
Jevtić, Miroljub Projection theorems, fractional derivatives and inclusion theorems for mixed-norm spaces on the ball. **90d:32001**
Kaĭmanovich, V. A. Harmonic and holomorphic functions on coverings of complex manifolds. (Russian) **90m:32005**
Khudaĭberganov, G. The Carathéodory-Fejér problem in the generalized unit disk. **90k:32004**
Kishka, Z. M. G. Exponential set of polynomials of two complex variables. **90d:32002**
Kubota, Yoshihisa A note on bounded holomorphic functions on bounded homogeneous domains. **90b:32003**
Liczberski, Piotr Jack's lemma for holomorphic mappings in $\mathbf{C}^n$. (Russian and Polish summaries) **90a:32004**
Manzini, F. Holomorphic functions as Radon-Nikodým measure derivatives. (Italian. English summary) **90h:32004**
McDonald, John N. An extreme absolutely continuous RP-measure. **90k:32005**
McKennon, Kelly The uniqueness theorem in complex analysis: a constructive approach. **90h:32005**
Poreda, Tadeusz On some topological properties of the class of normalized and starlike maps of the unit polydisk in $\mathbf{C}^n$. (Polish summary) **90d:32003**
Sirik, V. I. A theorem on the holomorphy of continuous mappings. **90h:32006**
Solomentsev, E. D. Some classes of holomorphic functions. (Russian) (*see* **90d:00020**)
Tamrazov, P. M. Multidimensional contour-solid theorems. **90d:32004**
Znamenskiĭ, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. **90e:32001**

Items with secondary classifications in 32A10

Andersson, Mats The corona theorem for matrices. **90g:30036**
Galindo, Pablo (*with* García, Domingo; Maestre, Manuel) The Hartogs theorem and holomorphic classification. (Spanish. English summary) **90a:46112**
García, Domingo Countable sets of holomorphic mappings. **90c:46057**
— *see also* **Galindo, Pablo; et al., 90a:46112**
Globevnik, J. A holomorphic function whose level sets have infinite area. **90i:32015**
Gong, Sheng (*with* Zheng, Xue An) Deviation theorems for doubly holomorphic mappings on homogeneous domains. I. (Chinese) (Not in MR)
Kazaryan, M. V. On the "edge of the wedge" theorem for meromorphic functions. (Russian. Armenian summary) **90b:32027**
Leĭnartas, E. K. The Hadamard multidimensional composition and sums with linear constraints on summation indices. **90f:32002**
Liczberski, Piotr On Bavrin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) **90g:32004**

Madi, Nour Saïd (*with* Yoshino, Masafumi) Unique solvability of nonlinear Fuchsian equations. **90j:35062**
Maestre, Manuel *see* **Galindo, Pablo; et al., 90a:46112**
Pathak, R. S. (*with* Paul, A. C.) Distributional boundary values in $(S^{a_k})'$-spaces of functions analytic in tubular radial domains. **90d:46066**
Paul, A. C. *see* **Pathak, R. S., 90d:46066**
Stoll, M. Rate of growth of pth means of invariant potentials in the unit ball of $\mathbf{C}^n$. **90j:32037**
Yoshino, Masafumi *see* **Madi, Nour Saïd, 90j:35062**
Zheng, Xue An *see* **Gong, Sheng,** (Not in MR)
Znamenskiĭ, S. V. The existence of holomorphic primitives in all directions. **90c:32019**

32A15 Entire functions

Avanissian, Vazgain Sur le L-type du prolongement holomorphe des fonctions harmoniques entières. (English summary) [On the L-type of the complexification of entire harmonic functions] **90e:32002**
Dubinskiĭ, Yu. A. Well-posedness of the Cauchy problem in classes of entire functions of finite order. **90c:32002**
Gbadeyan, J. A. *see* **Opoola, T. O., 90m:32007**
Genchev, T. G. A weighted version of the Paley-Wiener theorem. **90b:32004**
Gil′mutdinov, R. Z. Expansion of entire functions of several complex variables in quasi-power bases. (Russian) (*see* **90d:41001**)
Henson, C. Ward (*with* Rubel, Lee A.; Singer, Michael F.) Algebraic properties of the ring of general exponential polynomials. **90m:32006**
Ibragimov, G. I. Bases of exponentials in the space $E^2(D^n)$ on a multipolygon, and properties of coefficients of expansions. (Russian. English and Azerbaijani summaries) **90d:32005**
Ishimura, Ryuichi Endomorphismes de l'espace des germes de fonctions holomorphes en un point et opérateurs différentiels d'ordre infini. (English summary) [Endomorphisms of the space of germs of functions holomorphic at a point and differential operators of infinite order] **90i:32004**
Juneja, O. P. (*with* Sinha, Amritasu Kumar) On the coefficients of entire series of several complex variables. **90e:32003**
Krishna, J. Gopala (*with* Rao, I. H. Nagaraja) On coefficient expressions and optimal relations among sum [some] lower growth concepts associated with an entire power series on $\mathbf{C}^k$. **90h:32007**
Logvinenko, V. N. Conditions of boundedness and conditions of slow growth along a real hyperplane of entire functions of exponential type. **90c:32003**
Opoola, T. O. (*with* Gbadeyan, J. A.) On some properties of entire functions of several complex variables of regular growth. **90m:32007**
Popenov, S. V. A class of weighted spaces of entire functions. (Russian) (*see* **90d:41001**)
Rahman, Md. Muklesur On order and type of entire functions over $\mathbf{C}^2$. **90m:32008**
— The Gol′dberg order and Gol′dberg type of entire Dirichlet series in several complex variables. **90d:32006**
— On the algebraic structures of a class of entire multiple Dirichlet series in several complex variables. **90m:32009**
Rao, I. H. Nagaraja *see* **Krishna, J. Gopala, 90h:32007**
Rubel, Lee A. *see* **Henson, C. Ward; et al., 90m:32006**
Russakovskiĭ, A. M. On continuation with estimates from analytic sets of codimension 1. (Russian) **90k:32006**
Schumitzky, Alan A probabilistic approach to the Wiman-Valiron theory for entire functions of several complex variables. **90k:32007**
Sekerin, A. B. Sufficient sets in spaces of entire functions of several variables. **90f:32004**
Singer, Michael F. *see* **Henson, C. Ward; et al., 90m:32006**
Sinha, Amritasu Kumar *see* **Juneja, O. P., 90e:32003**
Stein, Yosef On the density of image of differential operators generated by polynomials. **90c:32004b**
— On linear differential operators related to the Jacobian conjecture. **90c:32004a**

Items with secondary classifications in 32A15

Aizenberg, L. A. (*with* Khudaĭberganov, G.) Multiple extrapolation of holomorphic functions from matrices and functions that are holomorphic in the product of half-planes. **90b:32010**
Aoki, Takashi Existence and continuation of holomorphic solutions of differential equations of infinite order. **90e:35007**
Aytuna, A. (*with* Krone, Jörg; Terzioğlu, T.) Complemented infinite type power series subspaces of nuclear Fréchet spaces. **90a:46014**
Bazylewicz, A. Critère de reconnaissabilité de fonctions analytiques et fonctions entières arithmétiques. [Recognizability criterion for analytic functions and arithmetical entire functions] **90b:30030**
Berenstein, Carlos A. (*with* Struppa, Daniele C.) Dirichlet series and convolution equations. **90d:30008**
Besada, Manuel (*with* Estévez, Margarita; Hervés, Carlos) Some results on entire functions with weak continuity properties in Banach spaces. (Spanish. English summary) **90e:46035**
Chan, Kit Chak Common cyclic entire functions for partial differential operators. **90j:47064**
Chan-Porn Les systèmes de représentation absolue dans les espaces des fonctions holomorphes. [Systems of absolute representation in holomorphic function spaces] **90m:46036**
— Ensembles suffisants pour quelques espaces de fonctions. [Sufficient sets for some function spaces] **90m:46037**
Estévez, Margarita *see* **Besada, Manuel; et al., 90e:46035**
(Favorov, S. Yu.) *see* **Lelong, Pierre, 90i:32002**
Frih, El Mostapha (*with* Gauthier, Paul M.) Approximation of a function and its derivatives by entire functions of several variables. **90e:30038**
Gauthier, Paul M. *see* **Frih, El Mostapha, 90e:30038**
Gruman, L. *see* **Lelong, Pierre, 90i:32002**
Hervés, Carlos *see* **Besada, Manuel; et al., 90e:46035**
Khudaĭberganov, G. *see* **Aĭzenberg, L. A., 90b:32010**
Kishka, Z. M. G. On the transposed set of two complex variables. **90a:41005**
Krone, Jörg *see* **Aytuna, A.; et al., 90a:46014**
Lê Hai Khôi On representing systems for functions of several variables. **90a:32003**
— Espaces conjugués ensembles faiblement suffisants discrets et systèmes de représentation exponentielle. [Adjoint spaces, discrete weakly sufficient sets and systems of exponential representation] **90k:46050**
Lelong, Pierre (*with* Gruman, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] **90i:32002**
Meise, Reinhold (*with* Taylor, B. A.) A decomposition lemma for entire functions and its applications to spaces of ultradifferentiable functions. **90i:46075**
Morimoto, Mitsuo (*with* Wada, Ryoko) Analytic functionals on the complex light cone and their Fourier-Borel transformations. **90d:32012**
Nguyen Thanh Van Bases polynomiales et approximation des fonctions séparément harmoniques dans $\mathbf{C}^\nu$. (English summary) [Polynomial bases and approximation of separately harmonic functions in $\mathbf{C}^\nu$] **90k:31008**
Ortaçgil, Ercüment A relation between radial indicators and order functions. (Turkish summary) **90k:32008**
Passare, Mikael Residues, currents, and their relation to ideals of holomorphic functions. **90d:32019**
Petunin, Yu. I. (*with* Savkin, V. I.) Convergence that is generated by analytic functionals, and an isomorphism of algebras of analytic functions. **90c:46065**
(Ronkin, L. I.) *see* **Lelong, Pierre, 90i:32002**
Rudol, K. Atomic-type decompositions in the Segal-Bargmann space. **90a:46060**
(Russakovskiĭ, A. M.) *see* **Lelong, Pierre, 90i:32002**
Savkin, V. I. *see* **Petunin, Yu. I., 90c:46065**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 90d:30008**
Taylor, B. A. *see* **Meise, Reinhold, 90i:46075**
Terzioğlu, T. *see* **Aytuna, A.; et al., 90a:46014**
Timoney, Richard M. Weak*-continuity of Jordan triple products and applications. **90a:46179**
Wada, Ryoko *see* **Morimoto, Mitsuo, 90d:32012**
Wolter, Jürgen Complementation of principal ideals in weighted (FN)-algebras of entire functions. **90d:46081**
Znamenskiĭ, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. **90e:32001**

32A17 Normal families

Items with secondary classifications in 32A17

Takayama, Nobuki Holonomic solution of Weisner's operator. **90m:35009**
Voisin, Claire Une remarque sur l'invariant infinitésimal des fonctions normales. (English summary) [A remark on the infinitesimal invariant of normal functions] **90a:14007**

32A20 Meromorphic functions

Malgrange, Bernard Sur le théorème de Maillet. [On the theorem of Maillet] **90f:32005**
Meziani, A. Topological rationalization of a class of meromorphic functions. **90m:32010**

Items with secondary classifications in 32A20

Gramsch, Bernhard (*with* Kaballo, Winfried) Decompositions of meromorphic Fredholm resolvents and Ψ^*-algebras. **90d:47016**
Kaballo, Winfried *see* **Gramsch, Bernhard, 90d:47016**
Zaĭdenberg, M. G. Transcendental solutions of Diophantine equations. **90e:11112**

32A22 Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}

Dektyarev, I. M. Averaged defects of holomorphic curves and divisors with an excess defect value. **90h:32008**
Ortaçgil, Ercüment A relation between radial indicators and order functions. (Turkish summary) **90k:32008**
Polyakov, P. L. Zeros of holomorphic functions of finite order in a polydisk. **90g:32002**
Zériahi, Ahmed Ensembles pluripolaires exceptionnels pour la croissance partielle des fonctions holomorphes. [Exceptional pluripolar sets for the partial growth of holomorphic functions] **90i:32005**

Items with secondary classifications in 32A22

Rahman, Md. Muklesur On order and type of entire functions over $\mathbf{C}^2$. **90m:32008**

32A25 Integral representation

Abdurakhmanov, R. Some classes of holomorphic functions. (Russian. Tajiki summary) **90a:32005**
Amar, Éric Estimées Lipschitz dans les domaines convexes de type fini de $\mathbf{C}^2$. (English summary) [Lipschitz estimates in convex domains of finite type in $\mathbf{C}^2$] **90k:32009**
Beatrous, F. (*with* Burbea, J.) Holomorphic Sobolev spaces on the ball. **90k:32010**
Berndtsson, Bo (*with* Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. **90i:32006**
Burbea, J. *see* **Beatrous, F., 90k:32010**
Chen, Shu Jin Integral representations of continuously differentiable functions of several complex variables and their applications. (Chinese. English summary) **90a:32006**
— Local extension of the integral representation of a holomorphic function on a convex domain in $\mathbf{C}^n$. (Chinese. English summary) **90b:32005**
— Note on integral representation of holomorphic functions in several complex variables. **90k:32011**
Chen, So-Chin Real analytic boundary regularity of the Cauchy kernel on convex domains. **90k:32012**
Choe, Boo Rim Projections, the weighted Bergman spaces, and the Bloch space. **90h:32009**

Khenkin, G. M. (*with* Polyakov, P. L.) Residue integral formulas and the Radon transform for differential forms on q-linearly concave domains. **90k:32013**

Kytmanov, A. M. (*with* Nikitina, T. N.) Analogues of the Carleman formula for classical domains. (Russian) **90e:32004**

Li, Hui Ping Integral representation of the canonical solution of the $\overline{\partial}$-equation. (Chinese) **90m:32011**

Lin, Liang Yu Transformation formulas for Cauchy integrals of functions of several complex variables at angular points. (Chinese. English summary) **90c:32005**

Milovanov, V. F. Properties of a class of integrals in the space C^2. (Russian) (*see* **90d:00046**)

Nikitina, T. N. *see* **Kytmanov, A. M., 90e:32004**

Passare, Mikael *see* **Berndtsson, Bo, 90i:32006**

Perotti, Alessandro The equation $\overline{\partial}u = f$ on the intersection of pseudoconvex domains. (Italian summary) **90b:32006**

Polyakov, P. L. *see* **Khenkin, G. M., 90k:32013**

Prenov, B. B. (*with* Tarkhanov, N. N.) A remark on the jump of the Martinelli-Bochner integral for domains with a piecewise smooth boundary. **90h:32010**

Sekerin, A. B. Integral representation of subharmonic functions. (Russian) (*see* **90d:41001**)

— An integral representation of plurisubharmonic functions. (Russian) **90a:32007**

Shatalov, V. E. *see* **Sternin, B. Yu., 90k:32014**

Sternin, B. Yu. (*with* Shatalov, V. E.) A new class of integral representations in complex analysis. (Russian) **90k:32014**

Tarkhanov, N. N. *see* **Prenov, B. B., 90h:32010**

Trèves, F. Homotopy formulas in the tangential Cauchy-Riemann complex. **90m:32012**

Yao, Zong Yuan On the Bochner-Ono formula. (Chinese. English summary) **90b:32007**

— On an integral representation on an analytic polyhedron in $\mathbf{C}^n$. (Chinese. English summary) **90b:32008**

Items with secondary classifications in 32A25

Abdurakhmanov, R. Some classes of holomorphic functions. II. (Russian. Tajiki summary) **90i:46076**

Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. **90d:32008**

Agranovskiĭ, M. L. (*with* Aĭzenberg, L. A.) Reconstruction of holomorphic and pluriharmonic functions in circular domains from values on the torus. **90g:32019**

Aĭzenberg, L. A. *see* **Agranovskiĭ, M. L., 90g:32019**

Andersson, Mats Values in the interior of the L^2-minimal solutions of the $\partial\overline{\partial}$-equation in the unit ball of $\mathbf{C}^n$. **90c:32028**

Aomoto, K. Special value of the hypergeometric function ${}_3F_2$ and connection formulae among asymptotic expansions. **90f:33001**

— On the complex Selberg integral. **90m:58244**

Bros, J. (*with* Omnès, Roland) Holomorphic integral representations for outgoing-waves in $\mathbf{R}^n$. **90f:35045**

Cheng, Jin^2 *see* **Li, Ming Zhong, 90e:35058**

(Egorychev, G. P.) *see* **Xu, Li Zhi, 90d:05017**

Jakóbczak, Piotr Boundary regularity of the solution of the $\overline{\partial}$-equation in the polydisc. **90f:32019**

Jiang, Mao Sen *see* **Xu, Li Zhi, 90d:05017**

Khenkin, G. M. (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002a**

— (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002b**

— (*with* Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) **90f:32007**

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) On the Hartogs-Bochner extension phenomenon for differential forms. **90c:32026**

Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 90c:32026**; **Khenkin, G. M., 90h:32002a** *and* **90h:32002b**

Li, Ming Zhong (*with* Cheng, Jin^2) Riemann-Hilbert problems for overdetermined elliptic systems with several unknown functions of several complex variables. (Chinese) **90e:35058**

McDonald, John N. An extreme absolutely continuous RP-measure. **90k:32005**

Nishimoto, Katsuyuki Fractional calculus of some elementary functions of two variables. **90d:26013**

Omnès, Roland *see* **Bros, J., 90f:35045**

Parrini, Carla Hölder estimates for $\overline{\partial}$ in some finite preimages of strictly pseudoconvex domains. (French summary) **90e:32018**

Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. **90e:33018**

Polyakov, P. L. *see* **Khenkin, G. M., 90f:32007**

Ryan, John Dirac operators, Schrödinger type operators in $\mathbf{C}^n$, and Huygens principle. **90k:58261**

Schmalz, Gerd Solution of the $\overline{\partial}$-equation with uniform estimates on strictly q-convex domains with nonsmooth boundary. **90k:32062**

Tajima, Shinichi $\overline{\partial}_b$-cohomology and the Bochner-Martinelli kernel. **90b:32023**

— Microlocal analyses of integral representation formulas for domains of type $\operatorname{Re} z_2 + |z_1|^{2m} < 0$. (Italian. English summary) **90i:32029**

Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] **90c:32006**

Wegner, Bernd A differential geometric proof of the local geometric characterization of spheres and cylinders by Boas. **90b:53004**

Xu, Li Zhi (*with* Jiang, Mao Sen) Comment on G. P. Egorychev's book *Integral representation and the computation of combinatorial sums* ["Nauka" Sibirsk. Otdel., Novosibirsk, 1977; MR **58** #10474]. (Chinese summary) **90d:05017**

Znamenskaya, L. N. Multidimensional analogues of the F. and M. Riesz theorem and Carleman's formula. (Russian) **90m:32016**

32A27 Local theory of residues [see also 32C30]

Aĭzenberg, L. A. (*with* Prenov, B. B.) Application of a multidimensional logarithmic residue to Poisson's summation formula. (Russian) **90g:32003**

Berenstein, Carlos A. (*with* Yger, Alain) Calcul de résidus et problèmes de division. (English summary) [Residue calculus and division problems] **90d:32007**

— (*with* Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) **90f:32006**

Gay, Roger *see* **Berenstein, Carlos A.; et al., 90f:32006**

Khenkin, G. M. (*with* Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) **90f:32007**

Polyakov, P. L. *see* **Khenkin, G. M., 90f:32007**

Prenov, B. B. *see* **Aĭzenberg, L. A., 90g:32003**

Shatalov, V. E. *see* **Sternin, B. Yu., 90j:32006**

Sternin, B. Yu. (*with* Shatalov, V. E.) On the theory of Leray residues. (Russian) **90j:32006**

Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] **90c:32006**

Yger, Alain *see* **Berenstein, Carlos A., 90d:32007** *and* **90f:32006**

Yuzhakov, A. P. The separating subgroup and local residues. **90b:32009**

Items with secondary classifications in 32A27

Dolbeault, Pierre Sur la structure des courants résiduels. [On the structure of residual currents] **90c:32015**

Hübl, Reinhold On the transitivity of regular differential forms. **90f:14010**

Khenkin, G. M. (*with* Polyakov, P. L.) Residue integral formulas and the Radon transform for differential forms on q-linearly concave domains. **90k:32013**

Passare, Mikael A calculus for meromorphic currents. **90d:32020**

— Residues, currents, and their relation to ideals of holomorphic functions. **90d:32019**

Polyakov, P. L. *see* **Khenkin, G. M., 90k:32013**

Skarke, Harald On the uniqueness of prescriptions for spurious poles in Feynman integrals. **90g:81053**

Tsikh, A. K. Integrals of rational functions over the space $\mathbf{R}^n$. **90k:32036**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

Inenaga, Yoshikazu *see* **Nôno, Kiyoharu, 90k:32015**

Jurchescu, Martin On a lemma of Koszul-Malgrange. **90e:32005**

Liczberski, Piotr On Bavrin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) **90g:32004**

Mikhaĭlov, L. G. Generalized analytic functions of several variables. (Russian) **90a:32008**

Mukhtarov, A. Sh. On the growth and on the best approximation of an analytic function in a bi-half-plane. (Russian) **90f:32008**

Nôno, Kiyoharu (*with* Inenaga, Yoshikazu) On quaternionic analysis of holomorphic mappings in $\mathbf{C}^2$. **90k:32015**

Items with secondary classifications in 32A30

Arai, Hitoshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. **90m:32004**

Bloom, Thomas On the convergence of multivariable Lagrange interpolants. **90m:32032**

Huang, Li Feng *see* **Ren, Fu Yao, 90g:30034**

Ibragimov, G. I. Representation of regular functions by Dirichlet series in a closed domain. (Russian. English and Azerbaijani summaries) **90a:30007**

— Convergence of a double Dirichlet series in a product of closed polygons. **90b:32001**

Jevtić, Miroljub Projection theorems, fractional derivatives and inclusion theorems for mixed-norm spaces on the ball. **90d:32001**

Kakichev, V. A. The Hilbert problem for bidomains. (Russian) **90m:32015**

Khryptun, V. G. Expansion of functions of quasi-analytic classes in series in polynomials. **90j:30057**

Kizuka, Takashi (*with* Matsumoto, Mitsuo) On meromorphic mappings of Poincaré type of two complex variables. **90j:32031**

Krishna, J. Gopala (*with* Rao, I. H. Nagaraja) On coefficient expressions and optimal relations among sum [some] lower growth concepts associated with an entire power series on $\mathbf{C}^k$. **90h:32007**

Kubicka, Ewa (*with* Poreda, Tadeusz) On the parametric representation of starlike maps of the unit ball in $\mathbf{C}^n$ into $\mathbf{C}^n$. **90g:32031**

Liczberski, Piotr Jack's lemma for holomorphic mappings in $\mathbf{C}^n$. (Russian and Polish summaries) **90a:32004**

Matsumoto, Mitsuo *see* **Kizuka, Takashi, 90j:32031**

Mikhaĭlov, L. G. A quasilinear generalized Cauchy-Riemann system with three independent complex variables. (Russian. Tajiki summary) **90c:35070**

— A nonlinear generalized Cauchy-Riemann system with two independent complex variables. **90d:30128**

Nishimura, Hirokazu Heyting valued considerations on some fundamental existence theorems in modern analysis. **90e:18003**

Poreda, Tadeusz *see* **Kubicka, Ewa, 90g:32031**

Rao, I. H. Nagaraja *see* **Krishna, J. Gopala, 90h:32007**

Ren, Fu Yao (*with* Huang, Li Feng) Extension of a theorem of Carleson-Duren. **90g:30034**

Rudin, Walter Tangential H^∞-images of boundary curves. **90d:32011**

Sommen, F. A Clifford-Radon transform in Euclidean space. **90k:81096**

Yoshino, Kunio On Carlson's theorem for holomorphic functions. **90i:30040**

32A35 H^p-spaces [see also 32M15, 42B30, 43A85, 46J15]

Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. **90d:32008**

Ahern, Patrick (*with* Bruna, Joaquim) Maximal and area integral characterizations of Hardy-Sobolev spaces in the unit ball of $\mathbf{C}^n$. **90h:32011**

— (*with* Cohn, William S.) Exceptional sets for Hardy Sobolev functions, $p > 1$. **90m:32013**

Aĭzenberg, L. A. (*with* Khudaĭberganov, G.) Multiple extrapolation of holomorphic functions from matrices and functions that are holomorphic in the product of half-planes. **90b:32010**

Aleksandrov, A. B. Orthogonal bases of inner functions. **90j:32007**

Bruna, Joaquim *see* **Ahern, Patrick, 90h:32011**

Choe, Boo Rim Composition property of holomorphic functions on the ball. **90g:32005**
Cohn, William S. Nonisotropic Hausdorff measure and exceptional sets for holomorphic Sobolev functions. **90j:32008**
— *see also* **Ahern, Patrick**, **90m:32013**
Hanges, Nicholas Explicit formulas for the Szegő kernel for some domains in $\mathbf{C}^2$. **90k:32016**
Hedenmalm, Håkan Outer functions in function algebras on the bidisc. **90c:32007**
Khudaiberganov, G. *see* **Aĭzenberg, L. A.**, **90b:32010**
Krotov, V. G. Differential properties on the boundary of functions that are holomorphic in the unit ball in $\mathbf{C}^N$. **90i:32007**
Mandrekar, V. The validity of Beurling theorems in polydiscs. **90c:32008**
Mochizuki, Nozomu Positive kernel functions and Bergman spaces. **90a:32009**
Nawrocki, M. Linear functionals on the Smirnov class of the unit ball in $\mathbf{C}^n$. **90m:32014**
Ouyang, Cai Heng Some classes of functions with exponential decay in the unit ball of $\mathbf{C}^n$. **90i:32008**
Shi, Ji Huai Hardy-Littlewood theorems on bounded symmetric domains of $\mathbf{C}^n$. **90b:32011**
Storozhenko, È. A. Smoothnesses and derivatives of analytic functions in the spaces $H^p(B^n)$. **90b:32012**
Stroethoff, Karel Besov-type characterisations for the Bloch space. **90h:32012**
Thomas, Pascal J. Hardy interpolating sequences of hyperplanes. **90k:32017**
Wogen, W. R. The smooth mappings which preserve the Hardy space $H^2(B_n)$. **90k:32018**

Items with secondary classifications in 32A35

Ahern, Patrick Some topics from the theory of functions in the unit ball. **90i:32009**
Athavale, Ameer Subnormal tuples quasi-similar to the Szegő tuple. **90b:47037**
Bertolo, Nativi Viana Pereira On the Hardy space H^1 on products of half-spaces. **90m:46041**
Carmichael, Richard D. Values on the topological boundary of tubes. **90a:46103**
Choa, J. S. (*with* Kim, Hong Oh) On the dual space of a weighted Bergman space on the unit ball of C^n. **90a:46052**
Choi, U Jin *see* **Kwak, Do Y.**, **90g:47050**
Clark, Douglas N. Restrictions of H^p functions in the polydisk. **90a:46135**
Deng, Dong Gao (*with* Fan, Qi Hong) The trace ideal criterion for Hankel operators on the Hardy space H^2 in the unit ball of $\mathbf{C}^n$. (Chinese. English summary) **90b:47041**
Dzhrbashyan, A. È. (*with* Karapetyan, A. O.) Integral inequalities between conjugate pluriharmonic functions in multidimensional domains. **90e:30034**
Fan, Qi Hong *see* **Deng, Dong Gao**, **90b:47041**
Faraut, J. (*with* Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. **90m:32049**
Ghatage, P. (*with* Mandrekar, V.) On Beurling type invariant subspaces of $L^2(\mathbf{T}^2)$ and their equivalence. **90i:47005**
Karapetyan, A. O. *see* **Dzhrbashyan, A. È.**, **90e:30034**
Kim, Hong Oh *see* **Choa, J. S.**, **90a:46052**
Kislitskiĭ, Yu. D. Invertibility of the two-dimensional Toeplitz operator with degenerate symbol. (Russian) **90c:47046**
Korányi, A. *see* **Faraut, J.**, **90m:32049**
Krotov, V. G. *see* **Storozhenko, È. A.**, **90c:42028**
Kwak, Do Y. (*with* Choi, U Jin) Bloch spaces in the ball and Hankel operators. **90g:47050**
Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta+\lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta+\lambda$ on a noncompact-type symmetric space] **90d:43008**
Mandrekar, V. *see* **Ghatage, P.**, **90i:47005**
Nakazi, Takahiko Certain invariant subspaces of H^2 and L^2 on a bidisc. **90d:46078**
Nawrocki, M. The nonisomorphism of the Smirnov classes of different balls and polydiscs. **90k:46052**
Nikitina, T. N. An analogue of Carleman's formula in the future tube. **90c:32001**
Ohno, Yoshiki A problem of prediction theory type in T^2. **90b:46057**
Peetre, Jaak Hankel forms on Fock space modulo C_N. **90c:47048**
Polyakov, P. L. Zeros of holomorphic functions of finite order in a polydisk. **90g:32002**
Storozhenko, È. A. (*with* Krotov, V. G.) Best approximations and derivatives of analytic functions of Hardy classes. (Russian) **90c:42028**
Zhu, Ke He Duality and Hankel operators on the Bergman spaces of bounded symmetric domains. **90h:47051**

32A40 Boundary behavior

Ahern, Patrick Some topics from the theory of functions in the unit ball. **90i:32009**
Beatrous, F. (*with* Burbea, J.) Boundary regularity for harmonic Hardy-Sobolev spaces. **90f:32009**
Burbea, J. *see* **Beatrous, F.**, **90f:32009**
Cohn, William S. Boundary interpolation for continuous holomorphic functions. **90k:32019**
Dufresnoy, Alain Sur l'équation de Monge-Ampère complexe dans la boule de $\mathbf{C}^n$. [On the complex Monge-Ampère equation in the unit ball of $\mathbf{C}^n$] **90k:32020**
Dupain, Yves Limites radiales de fonctions holomorphes dans la boule unite de $\mathbf{C}^n$. [Radial limits of holomorphic functions in the unit ball in $\mathbf{C}^n$] **90f:32010**
Èminyan, O. M. Boundary singularities of functions in a polydisk. (Russian. Armenian summary) **90d:32009**
Hedenmalm, Håkan Outer functions of several complex variables. **90g:32006**
Kakichev, V. A. The Hilbert problem for bidomains. (Russian) **90m:32015**
Karunakaran, V. Bieberbach functions and periodic distributions. **90i:32010**
Knopf, Peter M. Mapping properties of the Szegő operator for the bidisc. **90b:32013**
Kori, Tosiaki Dual of the space of holomorphic functions with continuous boundary values on a strictly pseudo-convex domain in $\mathbf{C}^n$. **90k:32021**
Nazaryan, È. O. A multidimensional analogue of the Carleman formula that has a holomorphic kernel. (Russian. English and Armenian summaries) **90d:32010**
Ouyang, Cai Heng Baernstein theorem in unit ball of $\mathbf{C}^n$. **90b:32014**
Rudin, Walter Tangential H^∞-images of boundary curves. **90d:32011**
Sergeev, A. G. The Lindelöf theorem, and pseudoconvex neighborhoods for the future tube. (Russian) **90c:32009**
Watanabe, Hiroshi[1] On the diagonalization in Bergman spaces. **90k:32022**
Zav′yalov, B. I. Asymptotic properties of functions that are holomorphic in tubular cones. **90b:32015**
Znamenskaya, L. N. Multidimensional analogues of the F. and M. Riesz theorem and Carleman's formula. (Russian) **90m:32016**

Items with secondary classifications in 32A40

Aladro, Gerardo The comparability of the Kobayashi approach region and the admissible approach region. **90g:32029**
Aleksandrov, A. B. Orthogonal bases of inner functions. **90j:32007**
Arai, Hitoshi Estimates of harmonic measures associated with degenerate Laplacian on strictly pseudoconvex domains. **90m:32004**
Beatrous, F. (*with* Burbea, J.) Holomorphic Sobolev spaces on the ball. **90k:32010**
Burbea, J. *see* **Beatrous, F.**, **90k:32010**
Carmichael, Richard D. Values on the topological boundary of tubes. **90a:46103**
— (*with* Mitrović, Dragiša) ★ Distributions and analytic functions. **90m:46072**
— Distributional and L^2 boundary values on the topological boundary of tubes. **90h:46075**
Chen, Shu Jin Integral representations of continuously differentiable functions of several complex variables and their applications. (Chinese. English summary) **90a:32006**
Chen, So-Chin Real analytic boundary regularity of the Cauchy kernel on convex domains. **90k:32012**
Cheng, Jin[2] On Riemann-Hilbert boundary value problems for complex overdetermined partial differential equations of first order. **90i:35193**
Choe, Boo Rim Projections, the weighted Bergman spaces, and the Bloch space. **90h:32009**
Cohn, William S. Nonisotropic Hausdorff measure and exceptional sets for holomorphic Sobolev functions. **90j:32008**
Dovbush, P. V. On the Lindelöf theorem in $\mathbf{C}^n$. **90b:32002**
Genchev, T. G. A weighted version of the Paley-Wiener theorem. **90b:32004**
Iagolnitzer, D. Microlocal analysis and scattering in quantum field theories. **90k:81265**
Kim, Kang Tae Complete localization of domains with noncompact automorphism groups. **90i:32035**
Krotov, V. G. Differential properties on the boundary of functions that are holomorphic in the unit ball in $\mathbf{C}^N$. **90i:32007**
Mitrović, Dragiša *see* **Carmichael, Richard D.**, **90m:46072**
Pathak, R. S. (*with* Paul, A. C.) Distributional boundary values in $(S^{a_k})'$-spaces of functions analytic in tubular radial domains. **90d:46066**
— (*with* Paul, A. C.) Distributional boundary values in $(W_M^\Omega)'$-spaces of functions holomorphic in tube domains. **90m:46073**
Paul, A. C. *see* **Pathak, R. S.**, **90d:46066** *and* **90m:46073**
Prenov, B. B. (*with* Tarkhanov, N. N.) A remark on the jump of the Martinelli-Bochner integral for domains with a piecewise smooth boundary. **90h:32010**
Schüffler, Karl-Heinz On holomorphic functions on Riemann surfaces and the Riemann-Hilbert problem. **90k:46076**
Semenov, A. M. Holomorphic extension from spheres into $\mathbf{C}^n$. **90h:32034**
Tarkhanov, N. N. *see* **Prenov, B. B.**, **90h:32010**

32A45 Hyperfunctions [see also 46F15]

Ito, Yoshifumi Fourier hyperfunctions of general type. **90a:32010**
Kaneko, Akira ★ Introduction to hyperfunctions. **90m:32017**
— On hyperfunctions with analytic parameters. **90c:32010**
— Note on the reproducing property of the Bergman kernel. **90m:32018**
Kataoka, Kiyômi (*with* Tose, Nobuyuki) Vanishing theorems for the sheaf of microfunctions with holomorphic parameters—flabbiness of the sheaf of 2-microfunctions. **90a:32011**
Lieutenant, J.-L. Extensions of microfunction sheaves up to the boundary. **90b:32016**
Morimoto, Mitsuo (*with* Wada, Ryoko) Analytic functionals on the complex light cone and their Fourier-Borel transformations. **90d:32012**
Tajima, Shinichi Support of CR-hyperfunctions. **90e:32006**
Tose, Nobuyuki *see* **Kataoka, Kiyômi**, **90a:32011**
Wada, Ryoko *see* **Morimoto, Mitsuo**, **90d:32012**
(Yamamoto, Yutaka) *see* **Kaneko, Akira**, **90m:32017**
Zayed, Ahmed I. Generalized Faber expansions of hyperfunctions on analytic curves. **90m:32019**

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Andronikof, E. Microlocalisation tempérée. Application aux distributions holonomes sur une variété complexe. [Tempered microlocalization. Application to holonomic distributions on a complex manifold] **90m:58196**
Colombeau, J.-F. (*with* Galé, José E.) Analytic continuation of generalized functions. **90d:46060**
Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) Multidimensional Abelian and Tauberian comparison theorems. (Russian) **90k:40007**
(Fantappiè, Luigi) *see* **Struppa, Daniele C.**, **90c:01048**
Galé, José E. *see* **Colombeau, J.-F.**, **90d:46060**
Kaneko, Akira A topological characterization of hyperfunctions with real analytic parameters. **90e:46033**
(Kashiwara, Masaki) *see* **Summary of Masaki Kashiwara's "The study of algebraic analysis"**, **90m:01005**
Kawai, Takahiro (*with* Takei, Yoshitsugu) On the global existence of real analytic solutions of systems of linear differential equations. **90b:58248**
Ôaku, Toshinori Higher-codimensional boundary value problem and F-mild hyperfunctions. **90k:58208**
Pathak, R. S. (*with* Paul, A. C.) Representations of ultradistributions of compact support by boundary values of analytic functions. **90i:46082**
— (*with* Paul, A. C.) Distributional boundary values in $(W_M^\Omega)'$-spaces of functions holomorphic in tube domains. **90m:46073**
Paul, A. C. *see* **Pathak, R. S.**, **90i:46082** *and* **90m:46073**
Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) **90c:01048**

Takei, Yoshitsugu *see* **Kawai, Takahiro, 90b:58248**
Tose, Nobuyuki (*with* Uchida, Moto-o) Negativity and vanishing of microfunction solution sheaves at the boundary. **90m:58198**
Uchida, Moto-o *see* **Tose, Nobuyuki, 90m:58198**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 90k:40007**

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32A99 None of the above, but in this section

Bui Doan, Khanh (*with* Sunyach, Christian) Polynômes à phase minimale en deux variables. (English summary) [Minimum-phase polynomials in two variables] **90d:32013**
Kakichev, V. A. (*with* Lepskiĭ, A. E.) Some properties of holomorphic functions of a countable number of arguments. (Russian) **90j:32009**
Lepskiĭ, A. E. *see* **Kakichev, V. A., 90j:32009**
Parreau, François (*with* Weit, Yitzhak) Schwartz's theorem on mean periodic vector-valued functions. (French summary) **90m:32020**
Sunyach, Christian *see* **Bui Doan, Khanh, 90d:32013**
Weit, Yitzhak *see* **Parreau, François, 90m:32020**

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Atakhodzhaev, M. A. (*with* Irgashev, M. Kh.) Zeros of periodic pluriharmonic functions in $2n$-dimensional spaces. (Russian) **90k:31009**
Bros, J. On the notions of scattering state, potential and wave-function in quantum field theory: an analytic-functional viewpoint. **90b:81056**
Curto, Raúl E. Applications of several complex variables to multiparameter spectral theory. **90d:47007**
Irgashev, M. Kh. *see* **Atakhodzhaev, M. A., 90k:31009**
Knopf, Peter M. Mapping properties of the Szegő operator for the bidisc. **90b:32013**
Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] **90c:44003**
Marmi, Stefano Diophantine conditions and K.A.M. estimates for the Siegel theorem in $\mathbf{C}^N$. (Italian summary) **90k:58187**
Muramoto, Katsushi Harmonic Bloch and BMO functions on the unit ball in several variables. **90a:31006**
Shub, Michael On the distance to the zero set of a homogeneous polynomial. **90k:12004**
Zhu, Ke He Hilbert-Schmidt Hankel operators on the Bergman space. **90k:47060**

32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebra and generalizations, preparation theorems

Broglia, Fabrizio (*with* Tognoli, A.) Approximation of C^∞-functions without changing their zero-set. (French summary) **90k:32023**
Płoski, Arkadiusz Remarks on polynomial equations with analytic coefficients. (Russian summary) **90d:32014**
Tognoli, A. *see* **Broglia, Fabrizio, 90k:32023**

Items with secondary classifications in 32B05

Bierstone, Edward (*with* Milman, Pierre D.) ★ The local geometry of analytic mappings. **90j:32011**
Cucker, Felipe Nash functions over real spectra. **90i:14026**
Hironaka, Heisuke (*with* Urabe, Tohsuke) ★ Kaiseki kukan nyumon. (Japanese) [Introduction to analytic spaces] **90g:32001**
Kucharz, W. Invertible ideals in real holomorphy rings. **90j:12002**
Milman, Pierre D. *see* **Bierstone, Edward, 90j:32011**
Nandakumar, N. R. An application of Nienhuys-Thiemann's theorem to ring derivations on $H(G)$. **90a:46139**
van der Put, M. Uniformisation p-adique. [p-adic uniformization] **90e:11090**
Shiota, Masahiro Extension et factorisation de fonctions de Nash C^∞. (English summary) [Extension and factorization of C^∞ Nash functions] **90h:32017**
Urabe, Tohsuke *see* **Hironaka, Heisuke, 90g:32001**

32B10 Germs of analytic sets

Adkins, William A. Lifting homeomorphisms of a complex surface to its normalization. **90j:32010**
Chądzyński, Jacek (*with* Płoski, Arkadiusz) An inequality for the intersection multiplicity of analytic curves. (Russian summary) **90h:32013**
Costa, Antonio F. Note on the degree of C^0-sufficiency of plane curves. **90k:32024**
Izumi, Shuzo Note on convergence and orders of vanishing along curves. **90m:32021**
Płoski, Arkadiusz *see* **Chądzyński, Jacek, 90h:32013**
Winiarski, Tadeusz Local properties of intersection. **90b:32017**

Items with secondary classifications in 32B10

Miodek, Andrzej The generalized parametric multiplicity. (Polish summary) **90a:32017**
— On some method of calculating a multiplicity. (Polish summary) **90a:32018**
Nguyễn Hữ'u Đú'c (*with* Nguyễn Tiến Đai) Stability of regular geometric interactions between holonomic components. **90g:58007**
Nguyễn Tiến Đai *see* **Nguyễn Hữ'u Đú'c, 90g:58007**
Parameswaran, A. J. Classification of isolated complete intersection singularities. **90i:32012**

Wallace C., Myrna Characterization of analytic vector fields in $\mathbf{R}^3$ that are tangent to the Whitney umbrella. (Spanish. English summary) **90d:58020**

32B15 Analytic subsets of affine space

Fortuna, Elisabetta (*with* Galbiati, Margherita) Séparation de semi-algébriques. (English summary) [Separation of semi-algebraic sets] **90k:32025**
Galbiati, Margherita *see* **Fortuna, Elisabetta, 90k:32025**

Items with secondary classifications in 32B15

Broglia, Fabrizio (*with* Tognoli, A.) Approximation des fonctions C^∞ et points de platitude. (English summary) [Approximation of nonflat C^∞ functions] **90i:58010**
Grzybowski, Jerzy Analytic continuation from compact set. **90h:32033**
Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. **90k:14020**
Russakovskiĭ, A. M. On continuation with estimates from analytic sets of codimension 1. (Russian) **90k:32006**
Sheremet′ev, V. E. Analytic multifunctions in $\mathbf{C}^n \times \mathbf{C}^k$ and an analogue of a theorem of Oka. (Russian) **90e:32010**
Tognoli, A. *see* **Broglia, Fabrizio, 90i:58010**
Winiarski, Tadeusz Local properties of intersection. **90b:32017**

32B20 Semi-analytic sets and subanalytic sets

Bierstone, Edward (*with* Milman, Pierre D.) ★ The local geometry of analytic mappings. **90j:32011**
Denkowska, Zofia La longueur des arcs dans les fibres d'un sous-analytique. (English summary) [Arc length in the fibers of a subanalytic set] **90h:32014**
— (*with* Wachta, Krystyna) On the existence of a subanalytic selection for the subanalytic set-valued function. **90b:32018**
Fekak, Azzeddine Sur les exposants de Łojasiewicz. [Łojasiewicz exponents] **90h:32015**
Henry, Jean-Pierre (*with* Merle, Michel) Stratifications de Whitney d'un ensemble sous-analytique. (English summary) [Whitney stratifications of a subanalytic set] **90d:32015**
Kayal, Toufic (*with* Raby, G.) Ensembles sous-analytiques: quelques propriétés globales. (English summary) [Subanalytic sets: some global properties] **90d:32016**
Kurdyka, K. (*with* Raby, G.) Densité des ensembles sous-analytiques. (English summary) [Density of subanalytic sets] **90k:32026**
Łojasiewicz, Stanisław Stratifications et triangulations sous-analytiques. [Subanalytic stratifications and triangulations] **90g:32007**
— Sur l'adhérence d'un ensemble partiellement semi-algébrique. [Closure of a partially semi-algebraic set] **90k:32027**
Merle, Michel *see* **Henry, Jean-Pierre, 90d:32015**
Milman, Pierre D. *see* **Bierstone, Edward, 90j:32011**
Raby, G. *see* **Kayal, Toufic, 90d:32016** *and* **Kurdyka, K., 90k:32026**
Ruiz, Jesús M. On the connected components of a global semianalytic set. **90h:32016**
Shiota, Masahiro Extension et factorisation de fonctions de Nash C^∞. (English summary) [Extension and factorization of C^∞ Nash functions] **90h:32017**
Souville, Jean Décomposition des cycles sous-analytiques maximalement complexes. [Decomposition of maximally complex subanalytic cycles] **90a:32012**
Sussmann, H. J. Real analytic desingularization and subanalytic sets: an elementary approach. **90e:32007**
Wachta, Krystyna Le "lemme du petit arc" pour les ensembles sous-analytiques ouverts. (English summary) [The "curve selection lemma" for open subanalytic sets] **90c:32011**
— *see also* **Denkowska, Zofia, 90b:32018**

Items with secondary classifications in 32B20

Denef, J. Multiplicity of the poles of the Poincaré series of a p-adic subanalytic set. **90f:11089**
Levine, Harold I. A lower bound for the topological complexity of Poly(D, n). **90i:68050**
Robson, Robert O. Local semianalytic geometry. **90k:14022**
Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] **90k:32046**
Yomdin, Y. Volume growth and entropy. **90g:58008**
— C^k-resolution of semialgebraic mappings. Addendum to: "Volume growth and entropy". **90g:58009**

32B25 Triangulation and related questions

Items with secondary classifications in 32B25

Broglia, Fabrizio Simple coverings for stratified spaces. (Italian) **90k:58005**
Bulla, W. (*with* Gesztesy, F.; Unterkofler, K.) On relativistic energy band corrections in the presence of periodic potentials. **90c:81038**
Gesztesy, F. *see* **Bulla, W.; et al., 90c:81038**
Unterkofler, K. *see* **Bulla, W.; et al., 90c:81038**

32B30 Local singularities [see also 14B05, 32C40, 32C42]

Abhyankar, Shreeram S. Irreducibility criterion for germs of analytic functions of two complex variables. **90h:32018**
Betina, K. Caractérisation des connexions singulières régulières le long d'un diviseur à croisements normaux. [Characterization of the regular singular connections along a divisor with normal crossings] **90i:32011**
Damon, James Topological invariants of μ-constant deformations of complete intersection singularities. **90j:32012**
Denef, J. (*with* Sargos, Patrick) Polyèdre de Newton et distribution f_+^s. I. [The Newton polyhedron and the distribution f_+^s. I] **90k:32028**
Dimca, A. On the fundamental group of the complement of an analytic hypersurface. **90b:32019**
Ishii, Shihoko Two-dimensional singularities with bounded pluri-genera δ_m are $\mathbf{Q}$-Gorenstein singularities. **90h:32019**

de Jong, Theo Some classes of line singularities. **90a:32013**

Kang, Chunghyuk The computation method of the Milnor number of hypersurface singularities defined by an irreducible Weierstrass polynomial $z^n + a(x,y)z + b(x,y) = 0$ in $\mathbf{C}^3$ and its application. **90m:32022**

Klarès, Bernard Analytical reduction of differential systems. **90b:32020**

Lichtin, B. Poles of $|f(z,w)|^{2s}$ and roots of the b-function. **90k:32029**

Matsuoka, Sachiko An algebraic criterion for right-left equivalence of holomorphic functions on analytic varieties. **90g:32008**

Némethi, A. The link of the sum of two holomorphic functions. **90b:32021**

O'Shea, Donal B. Spaces of limiting tangent spaces. **90h:32020**

Parameswaran, A. J. Classification of isolated complete intersection singularities. **90i:32012**

Pellikaan, Ruud On hypersurface singularities which are stems. **90k:32030**

Saeki, Osamu Topological types of complex isolated hypersurface singularities. **90c:32012**

Sánchez Peregrino, R. Identité de Bernstein pour une fonction homogène à singularité isolée. [Bernstein identity for a homogeneous function with isolated singularity] **90k:32031**

Sargos, Patrick *see* **Denef, J., 90k:32028**

Shubladze, M. Sh. Flat isolated singularities of analytic functions of three complex variables. (Russian. English and Georgian summaries) **90b:32022**

Vaquié, M. Modification de Nash et invariants numériques d'une surface normale. [Nash modification and numerical invariants of a normal surface] **90j:32013**

Varchenko, A. N. Critical values and the determinant of periods. **90i:32013**

Weber, Claude A topological interpretation for the polar quotients of an algebraic plane curve singularity. **90d:32017**

Xu, Yijing (*with* Yau, Stephen S.-T.) The inequality $\mu \geq 12p_g - 4$ for hypersurface weakly elliptic singularities. **90g:32009**

Yano, Tamaki Locally prehomogeneous spaces and their transverse localizations. **90h:32021**

Yau, Stephen S.-T. *see* **Xu, Yijing, 90g:32009**

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Aleksandrov, A. G. Nonisolated Saito singularities. **90b:32024**

Aroca Hernández-Ros, José M. Results of F. Cano on Thom's conjecture. (Spanish. English summary) **90c:57020**

Cerveau, Dominique (*with* Moussu, R.) Groupes d'automorphismes de $(\mathbf{C},0)$ et équations différentielles $ydy + \cdots = 0$. (English summary) [Groups of automorphisms of $(\mathbf{C},0)$ and differential equations of the form $ydy + \cdots = 0$] **90m:58192**

Costa, Antonio F. Note on the degree of C^0-sufficiency of plane curves. **90k:32024**

Cucker, Felipe (*with* Pardo, L. M.; Raimondo, M.; Recio Muñiz, Tomás J.; Roy, M.-F.) On the computation of the local and global analytic branches of a real algebraic curve. **90j:14020**

Duval, Julien Convexité rationnelle des tores lagrangiéns de $\mathbf{C}^2$. (English summary) [Rational convexity of Lagrangian tori in $\mathbf{C}^2$] **90a:32016**

Ehlers, F. (*with* Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. **90f:14001**

Fiedler, Thomas Real points on complex plane curves. **90f:14022**

Gau, Yih-Nan On the topological types of quasi-ordinary surface germs. **90e:14040**

Hansen, Vagn Lundsgaard Polynomial covering maps. **90c:57001**

Hauser, H. (*with* Randell, R.) Report on the problem session. **90c:32017**

— (*with* Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. **90c:32041**

Kahn, Constantin P. M. Reflexive modules on minimally elliptic singularities. **90i:14011**

Kannowski, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. **90i:57008**

Laufer, Henry B. Tangent cones for deformations of two-dimensional quasi-homogeneous singularities. **90g:32024**

Libgober, A. Invariants of plane algebraic curves via representations of the braid groups. **90a:14038**

Lichtin, B. Poles of Dirichlet series and D-modules. **90m:11133**

Martin, Bernd (*with* Pfister, Gerhard) Singularities of moduli spaces. **90m:14004**

Martsinkovsky, Alex Almost split sequences and Zariski differentials. **90i:14038**

Meziani, A. Topological rationalization of a class of meromorphic functions. **90m:32010**

Michel, Françoise Courbes polaires pour les singularités de type "arbre de Noël". (English summary) [Polar curves for "Christmas-tree" singularities] **90c:14015**

Moussu, R. *see* **Cerveau, Dominique, 90m:58192**

Müller, Gerd *see* **Hauser, H., 90c:32041**

Orevkov, S. Yu. The fundamental group of the complement of a plane algebraic curve. **90e:14028**

Orlik, Peter ★ Introduction to arrangements. **90i:32018**

Pardo, L. M. *see* **Cucker, Felipe; et al., 90j:14020**

Pfister, Gerhard *see* **Martin, Bernd, 90m:14004**

Raimondo, M. *see* **Cucker, Felipe; et al., 90j:14020**

Randell, R. *see* **Hauser, H., 90c:32017**

Recio Muñiz, Tomás J. *see* **Cucker, Felipe; et al., 90j:14020**

Roy, M.-F. *see* **Cucker, Felipe; et al., 90j:14020**

Rudolph, Lee Quasipositivity and new knot invariants. **90k:57009**

Scherk, J. *see* **Ehlers, F., 90f:14001**

Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] **90k:32046**

Vinner, G. M. The mechanism of equilibrium instability of natural systems. **90g:70019**

Weinberg, David A. The topological classification of cubic curves. **90b:14069**

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CBMS Regional Conference Series in Mathematics *see* **Orlik, Peter, 90i:32018**

Real algebraic geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**

Symposium:

Real Algebraic Geometry ★ Jitsu daisū kika. [Real algebraic geometry] **90b:14032**

32B99 None of the above, but in this section

Ramanakoraisina, Rodolphe Complexité des fonctions de Nash. (English summary) [Complexity of Nash functions] **90e:32008**

Items with secondary classifications in 32B99

van den Dries, Lou Convergent series expansions of a new type for exponential functions. **90k:12003**

Hamm, Helmut A. (*with* Lê Dũng Tráng) Local generalizations of Lefschetz-Zariski theorems. **90a:32019**

Lê Dũng Tráng *see* **Hamm, Helmut A., 90a:32019**

Marchiò, Carla *see* **Pasini, Leonardo, 90i:26030**

Pasini, Leonardo (*with* Marchiò, Carla) Exponentially and logarithmically closed Hardy fields in several variables. **90i:26030**

32Cxx General theory of analytic spaces

Items with secondary classifications in 32Cxx

Gel′fand, S. I. (*with* Manin, Yu. I.) ★ Методы гомологической алгебры. Том 1. (Russian) [Methods in homological algebra. Vol. 1] **90k:18016**

Hironaka, Heisuke (*with* Urabe, Tohsuke) ★ Kaiseki kukan nyumon. (Japanese) [Introduction to analytic spaces] **90g:32001**

Manin, Yu. I. *see* **Gel′fand, S. I., 90k:18016**

Urabe, Tohsuke *see* **Hironaka, Heisuke, 90g:32001**

32C05 Real-analytic manifolds, real-analytic spaces [see also 14G30, 58A07]

Guaraldo, Francesco Extensions of isomorphisms among analytic or real Nash spaces. (Italian. English summary) **90h:32022**

Items with secondary classifications in 32C05

Bierstone, Edward (*with* Milman, Pierre D.) ★ The local geometry of analytic mappings. **90j:32011**

Bochnak, J. (*with* Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] **90b:14030**

Coste, M. *see* **Bochnak, J.; et al., 90b:14030**

Guaraldo, Francesco (*with* Macrì, Patrizia; Tancredi, Alessandro) ★ Topics on real analytic spaces. **90j:32001**

Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. **90k:14020**

Kirchheim, Bernd Uniformly distributed measures, tangent measures and analytic varieties. (*see* **90g:28001**)

Macrì, Patrizia *see* **Guaraldo, Francesco; et al., 90j:32001**

Milman, Pierre D. *see* **Bierstone, Edward, 90j:32011**

Roy, M.-F. *see* **Bochnak, J.; et al., 90b:14030**

Ruiz, Jesús M. On the connected components of a global semianalytic set. **90h:32016**

Tancredi, Alessandro *see* **Guaraldo, Francesco; et al., 90j:32001**

Tognoli, A. Analyticity of homology classes. **90d:57040**

Wachta, Krystyna Le "lemme du petit arc" pour les ensembles sous-analytiques ouverts. (English summary) [The "curve selection lemma" for open subanalytic sets] **90c:32011**

32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Duchamp, T. (*with* Kalka, M.) The equivalence problem for complex foliations of complex surfaces. **90k:32032**

Givental′, A. B. Plücker formulas and Cartan matrices. **90k:32033**

Hill, C. Denson What is the notion of a complex manifold with a smooth boundary? **90e:32009**

Kalka, M. *see* **Duchamp, T., 90k:32032**

Kobayashi, Ryoichi (*with* Nakamura, Shu^2; Sakai, Fumio) A numerical characterization of ball quotients for normal surfaces with branch loci. **90k:32034**

McHugh, Andrew A Newlander-Nirenberg theorem for supermanifolds. **90c:32013**

Nakamura, Shu^2 *see* **Kobayashi, Ryoichi; et al., 90k:32034**

Sakai, Fumio *see* **Kobayashi, Ryoichi; et al., 90k:32034**

Sankaran, G. K. A class of non-Kähler complex manifolds. **90f:32011**

Simha, R. R. The monodromy representations of projective structures. **90g:32010**

Webster, Sidney A new proof of the Newlander-Nirenberg theorem. **90f:32012**

Zhang, Jin Hao Chern-Levin [Levine]-Nirenberg norm on homology class. **90d:32018**

Items with secondary classifications in 32C10

Andrzejczak, Grzegorz Kähler shift makes Chern classes Riemannian. **90f:53104**

Candelas, P. Lectures on complex manifolds. **90i:32001**

Dai, Xin Sheng A class of symmetric functions and Chern classes of projective varieties. **90h:14030**

Donaldson, S. Complex curves and surgery. **90k:57041**

Fernández, Marisa Luisa (*with* Gotay, Mark J.; Gray, Alfred) Compact parallelizable four-dimensional symplectic and complex manifolds. **90a:53039**

Fiedler, Thomas Twistor holomorphic immersions of real surfaces into Kähler surfaces. **90b:53070**

Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. **90d:53083**

Gauchman, Hillel Inequalities for cohomology classes of Kaehler manifolds. **90m:53077**

Goldman, William M. (*with* Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. **90b:32041**

Goresky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**

Gotay, Mark J. *see* **Fernández, Marisa Luisa; et al., 90a:53039**

Gray, Alfred *see* **Fernández, Marisa Luisa; et al., 90a:53039**

Gromov, Mikhael L. Sur le groupe fondamental d'une variété kählérienne. (English summary) [On the fundamental group of a Kähler manifold] **90i:53090**

Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. **90m:57030**

Hsiung, Chuan-Chih Nonexistence of a complex structure on the six-sphere. **90m:53051**

Kaĭmanovich, V. A. Harmonic and holomorphic functions on coverings of complex manifolds. (Russian) **90m:32005**

Kalina, Jerzy (*with* Pierzchalski, Antoni) Some differential operators in real and complex geometry. **90g:58137**

Kannowski, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. **90i:57008**

Kotschick, Dieter On manifolds homeomorphic to $\mathrm{CP}^2\#8\overline{\mathrm{CP}}^2$. **90a:57047**

Lanteri, Antonio (*with* Struppa, Daniele C.) Topological properties of cyclic coverings branched along an ample divisor. **90i:14021**

Lupton, Gregory Intrinsic formality and certain types of algebras. **90k:55016**

Lütken, C. A. Geometry of the Z-fold. **90h:81174**

MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**

Manin, Yu. I. *see* **Voronov, A. A.; et al., 90c:58016**

Millson, John J. Deformations of representations of finitely generated groups. **90c:22034**

— *see also* **Goldman, William M., 90b:32041**

Mok, Ngaiming Compactification of complete Kähler-Einstein manifolds of finite volume. **90j:53065**

Nguyen Dinh Sang (*with* Nguyễn Văn Khuê) Mixed spaces. **90c:32038**

Nguyễn Văn Khuê *see* **Nguyen Dinh Sang, 90c:32038**

Nomizu, Katsumi (*with* Podestà, Fabio) On affine Kähler structures. **90j:53087**

Ôike, Hiroshi Holomorphic tangent bundles and normal bundles of complex submanifolds of complex projective spaces. **90k:32086**

Okonek, Christian (*with* Van de Ven, A.) Γ-type-invariants associated to PU(2)-bundles and the differentiable structure of Barlow's surface. **90a:57048**

Penkov, I. B. *see* **Voronov, A. A.; et al., 90c:58016**

Pierzchalski, Antoni *see* **Kalina, Jerzy, 90g:58137**

Podestà, Fabio *see* **Nomizu, Katsumi, 90j:53087**

Shafarevich, I. R. ★ Основы алгебраической геометрии. Том 2. (Russian) [Fundamentals of algebraic geometry. Vol. 2] **90g:14002**

Shatalov, V. E. *see* **Sternin, B. Yu., 90b:58262**

Sternin, B. Yu. (*with* Shatalov, V. E.) Asymptotic behavior of solutions of differential equations on complex varieties. **90b:58262**

Struppa, Daniele C. *see* **Lanteri, Antonio, 90i:14021**

Van de Ven, A. *see* **Okonek, Christian, 90a:57048**

Voronov, A. A. (*with* Manin, Yu. I.; Penkov, I. B.) Elements of supergeometry. (Russian) **90c:58016**

Waliszewski, Włodzimierz Complex premanifolds and foliations. **90b:58011**

32C15 Complex spaces

Barlet, Daniel (*with* Varouchas, J.) Fonctions holomorphes sur l'espace des cycles. (English summary) [Holomorphic functions on the space of cycles] **90m:32023**

Dethloff, Gerd-E. A new proof of a theorem of Grauert and Remmert by L_2-methods. **90m:32024**

Pardon, William The L_2-$\overline{\partial}$-cohomology of an algebraic surface. **90i:32014**

Varouchas, J. *see* **Barlet, Daniel, 90m:32023**

Items with secondary classifications in 32C15

Dau The Cap (*with* Nguyen Huu Vien) On Noetherianness and Laskerianness of algebras of germs of holomorphic functions on compact subsets. **90m:32031**

Ferrer-Llop, Josep (*with* Puerta Sales, Fernando) Déformations $\mathbf{C}^*$-équivariantes de germes de faisceaux cohérents. [$\mathbf{C}^*$-equivariant deformations of germs of coherent sheaves] **90d:32036**

Hayes, Sandra (*with* Pourcin, Geneviève) Global construction of the normalization of Stein spaces. **90d:32029**

Izumi, Shuzo Note on convergence and orders of vanishing along curves. **90m:32021**

Nguyen Huu Vien *see* **Dau The Cap, 90m:32031**

Pourcin, Geneviève *see* **Hayes, Sandra, 90d:32029**

Puerta Sales, Fernando *see* **Ferrer-Llop, Josep, 90d:32036**

32C20 Normal analytic spaces

Ofman, Salomon Intégration des classes de $d'd''$-cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of $d'd''$-cohomology classes on analytic cycles. Solution of the problem of injectivity] **90h:32023**

Items with secondary classifications in 32C20

Adkins, William A. Lifting homeomorphisms of a complex surface to its normalization. **90j:32010**

Dethloff, Gerd-E. A new proof of a theorem of Grauert and Remmert by L_2-methods. **90m:32024**

Nagase, Masayoshi Remarks on the L^2-cohomology of singular algebraic surfaces. **90m:58005**

Vaquié, M. Modification de Nash et invariants numériques d'une surface normale. [Nash modification and numerical invariants of a normal surface] **90j:32013**

32C25 Analytic subsets and submanifolds

Globevnik, J. A holomorphic function whose level sets have infinite area. **90i:32015**

Reiffen, Hans-Jörg Leafspaces and integrability. **90c:32014**

Ruiz, Jesús M. A characterization of sums of $2n$th powers of global meromorphic functions. **90k:32035**

Sheremet'ev, V. E. Analytic multifunctions in $\mathbf{C}^n \times \mathbf{C}^k$ and an analogue of a theorem of Oka. (Russian) **90e:32010**

Items with secondary classifications in 32C25

Burstall, Francis E. Recent developments in twistor methods for harmonic maps. **90c:58040**

Winiarski, Tadeusz Local properties of intersection. **90b:32017**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Dolbeault, Pierre Sur la structure des courants résiduels. [On the structure of residual currents] **90c:32015**

Passare, Mikael A calculus for meromorphic currents. **90d:32020**

— Residues, currents, and their relation to ideals of holomorphic functions. **90d:32019**

Tsikh, A. K. Integrals of rational functions over the space $\mathbf{R}^n$. **90k:32036**

Items with secondary classifications in 32C30

Barlet, Daniel (*with* Varouchas, J.) Fonctions holomorphes sur l'espace des cycles. (English summary) [Holomorphic functions on the space of cycles] **90m:32023**

Berenstein, Carlos A. (*with* Gay, Roger; Yger, Alain) Analytic continuation of currents and division problems. (French summary) **90f:32006**

Berndtsson, Bo (*with* Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. **90i:32006**

Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] **90c:32039**

Gay, Roger *see* **Berenstein, Carlos A.; et al., 90f:32006**

Globevnik, J. A holomorphic function whose level sets have infinite area. **90i:32015**

Khenkin, G. M. (*with* Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) **90f:32007**

Magnússon, Jón Singularités polaires et points de Weierstrass en codimension plus grande que un. [Polar singularities and Weierstrass points in codimension greater than one] **90d:32022**

Ofman, Salomon Intégration des classes de $d'd''$-cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of $d'd''$-cohomology classes on analytic cycles. Solution of the problem of injectivity] **90h:32023**

Passare, Mikael *see* **Berndtsson, Bo, 90i:32006**

Polyakov, P. L. *see* **Khenkin, G. M., 90f:32007**

Shatalov, V. E. *see* **Sternin, B. Yu., 90j:32006**

Souville, Jean Décomposition des cycles sous-analytiques maximalement complexes. [Decomposition of maximally complex subanalytic cycles] **90a:32012**

Sternin, B. Yu. (*with* Shatalov, V. E.) On the theory of Leray residues. (Russian) **90j:32006**

Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] **90c:32006**

Varouchas, J. *see* **Barlet, Daniel, 90m:32023**

Yger, Alain *see* **Berenstein, Carlos A.; et al., 90f:32006**

Yuzhakov, A. P. The separating subgroup and local residues. **90b:32009**

Zhang, Jin Hao Chern-Levin [Levine]-Nirenberg norm on homology class. **90d:32018**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Baran, Andrei Duality for complexes of sheaves with coherent cohomology on analytic spaces. (Romanian. English summary) **90k:32037**

Coen, Salvatore A remark on characters and point evaluations. (Italian summary) **90c:32016**

Eschmeier, Jörg (*with* Putinar, Mihai) The sheaf $\mathscr{E}$ is not topologically flat over $\mathscr{O}$. **90h:32024**

Golovin, V. D. ★ Homology of analytic sheaves and duality theorems. **90d:32021**

Kosarew, Siegmund A note on the local homotopy type of direct image sheaf complexes. **90g:32011**

Ohsawa, Takeo On the infinite dimensionality of the middle L^2 cohomology of complex domains. **90i:32016**

Peternell, Mathias Algebraic and analytic cohomology of quasiprojective varieties. **90m:32025**

Putinar, Mihai *see* **Eschmeier, Jörg, 90h:32024**

Saito, Morihiko Modules de Hodge polarisables. [Polarizable Hodge modules] **90k:32038**

Sasakura, Nobuo Configuration of divisors and reflexive sheaves. **90i:32017**

(Stein, Norman) *see* **Golovin, V. D., 90d:32021**

Tajima, Shinichi $\overline{\partial}_b$-cohomology and the Bochner-Martinelli kernel. **90b:32023**

Items with secondary classifications in 32C35

Bauer, Ingrid (*with* Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. **90e:14019**

Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] **90c:32039**

— (*with* Gillet, Henri; Soulé, Christophe) Classes caractéristiques secondaires et immersions en géométrie complexe. (English summary) [Secondary characteristic classes and immersions in complex geometry] **90c:32040**

Gillet, Henri *sec* **Bismut, Jean-Michel; et al., 90c:32040**

Ishimura, Ryuichi Endomorphismes de l'espace des germes de fonctions holomorphes en un point et opérateurs différentiels d'ordre infini. (English summary) [Endomorphisms of the space of germs of functions holomorphic at a point and differential operators of infinite order] **90i:32004**

Khenkin, G. M. (*with* Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) **90f:32007**

Kosarew, Siegmund ★ Grothendieck's existence theorem in analytic geometry and related results. **90a:32031**

— (*with* Okonek, Christian) Global moduli spaces and simple holomorphic bundles. **90k:32069**

— *see also* **Bauer, Ingrid, 90e:14019**

Manin, Yu. I. *see* **Voronov, A. A.; et al., 90c:58016**

Nacinovich, M. On strict Levi q-convexity and q-concavity on domains with piecewise smooth boundaries. **90b:32033**

Ofman, Salomon Intégration des classes de $d'd''$-cohomologie sur les cycles analytiques. Solution du problème de l'injectivité. [Integration of $d'd''$-cohomology classes on analytic cycles. Solution of the problem of injectivity] **90h:32023**

Okonek, Christian *see* **Kosarew, Siegmund, 90k:32069**

Penkov, I. B. *see* **Voronov, A. A.; et al., 90c:58016**

Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. **90e:32035**

Polyakov, P. L. *see* **Khenkin, G. M., 90f:32007**

Schapira, Pierre Cycles lagrangiens, fonctions constructibles et applications. [Lagrangian cycles, constructible functions and applications] **90j:58140**

Shatalov, V. E. *see* **Sternin, B. Yu., 90k:32053**

Soulé, Christophe *see* **Bismut, Jean-Michel; et al., 90c:32040**

Sternin, B. Yu. (*with* Shatalov, V. E.) Solvability of Cousin's first problem for a class of multivalued analytic functions. (Russian) **90k:32053**

Tarkhanov, N. N. Cohomology of differential complexes. **90a:58163**

Tose, Nobuyuki (*with* Uchida, Moto-o) Negativity and vanishing of microfunction solution sheaves at the boundary. **90m:58198**

Uchida, Moto-o *see* **Tose, Nobuyuki, 90m:58198**

Voronov, A. A. (*with* Manin, Yu. I.; Penkov, I. B.) Elements of supergeometry. (Russian) **90c:58016**

Zayed, Ahmed I. Generalized Faber expansions of hyperfunctions on analytic curves. **90m:32019**

32C36 Local cohomology of analytic spaces

Magnússon, Jón Singularités polaires et points de Weierstrass en codimension plus grande que un. [Polar singularities and Weierstrass points in codimension greater than one] **90d:32022**

Items with secondary classifications in 32C36

Angéniol, B. (*with* Lejeune-Jalabert, M.) ★ Calcul différentiel et classes caractéristiques en géométrie algébrique. (French) [Differential calculus and characteristic classes in algebraic geometry] **90h:14004**

Lejeune-Jalabert, M. *see* **Angéniol, B., 90h:14004**

Nagase, Masayoshi Pure Hodge structure of the harmonic L^2-forms on singular algebraic surfaces. **90h:32027**

32C37 Duality theorems

Morita, Yasuo A p-adic theory of hyperfunctions. II. **90g:32012**

Items with secondary classifications in 32C37

Baran, Andrei Duality for complexes of sheaves with coherent cohomology on analytic spaces. (Romanian. English summary) **90k:32037**

Chiarellotto, Bruno Sur le théorème de comparaison entre cohomologies de de Rham algébrique et p-adique rigide. (English summary) [A comparison theorem for the algebraic de Rham and rigid p-adic cohomologies] **90c:14012**

Eschmeier, Jörg (*with* Putinar, Mihai) The sheaf $\mathscr{E}$ is not topologically flat over $\mathscr{O}$. **90h:32024**

Golovin, V. D. ★ Homology of analytic sheaves and duality theorems. **90d:32021**

Manin, Yu. I. *see* **Voronov, A. A.; et al., 90c:58016**

Penkov, I. B. *see* **Voronov, A. A.; et al., 90c:58016**

Putinar, Mihai *see* **Eschmeier, Jörg, 90h:32024**

(Stein, Norman) *see* **Golovin, V. D., 90d:32021**

Tsikh, A. K. ★ Многомерные вычеты и их применения. (Russian) [Higher-dimensional residues and their applications] **90c:32006**

Voronov, A. A. (*with* Manin, Yu. I.; Penkov, I. B.) Elements of supergeometry. (Russian) **90c:58016**

32C38 Sheaves of differential operators and their modules [see also 35A27, 58G07]

Hauser, H. Comparing modules of differential operators by their evaluation on polynomials. **90d:32023**

Maisonobe, P. Faisceaux pervers sur **C** relativement à $\{0\}$ et couple $E \underset{v}{\overset{u}{\rightleftarrows}} F$. [Perverse sheaves over **C** with respect to $\{0\}$ and the pair $E \underset{v}{\overset{u}{\rightleftarrows}} F$] **90k:32039**

— Germes de D-modules à une variable et leurs solutions. [Germs of D-modules with one variable and their solutions] **90k:32040**

Malgrange, Bernard Extension of holonomic $\mathscr{D}$-modules. **90e:32011**

Mebkhout, Z. On the irregularity of the $\mathscr{D}_X$ holonomic modules. **90e:32012**

— ★ Le formalisme des six opérations de Grothendieck pour les $\mathscr{D}_X$-modules cohérents. (French) [The formalism of Grothendieck's six operations for coherent $\mathscr{D}_X$-modules] **90m:32026**

Narváez-Macarro, L. Systèmes différentiels linéaires sur une surface de Riemann. [Linear differential systems on a Riemann surface] **90k:32041**

— *see also* **Mebkhout, Z., 90m:32026**

Sabbah, C. Proximité évanescente. I. La structure polaire d'un $\mathscr{D}$-module. (English summary) [Vanishing proximity. I. The polar structure of a $\mathscr{D}$-module] **90a:32014**

— Proximité évanescente. II. Équations fonctionnelles pour plusieurs fonctions analytiques. (English summary) [Vanishing proximity. II. Functional equations for several analytic functions] **90a:32015**

Items with secondary classifications in 32C38

Andronikof, E. Microlocalisation tempérée. Application aux distributions holonomes sur une variété complexe. [Tempered microlocalization. Application to holonomic distributions on a complex manifold] **90m:58196**

Asensio, Maria Jesus (*with* Van den Bergh, Michel; Van Oystaeyen, F.) A new algebraic approach to microlocalization of filtered rings. **90c:16001**

Bernstein, Joseph (*with* Lunts, Valery) On nonholonomic irreducible D-modules. **90b:58247**

Borho, Walter (*with* Brylinski, Jean-Luc) Differential operators on homogeneous spaces. II. Relative enveloping algebras. (French summary) **90j:17023**

Brylinski, Jean-Luc Some examples of Hochschild and cyclic homology. **90e:22018**

— *see also* **Borho, Walter, 90j:17023**

Cline, E. (*with* Parshall, B.; Scott, Leonard L.) Finite-dimensional algebras and highest weight categories. **90d:18005**

Coutinho, S. C. (*with* Holland, M. P.) Differential operators on smooth varieties. **90m:16017**

Hodges, Timothy J. K-theory of D-modules and primitive factors of enveloping algebras of semisimple Lie algebras. (French summary) **90b:17022**

Holland, M. P. *see* **Coutinho, S. C., 90m:16017**

Kaneko, Akira ★ Introduction to hyperfunctions. **90m:32017**

Kawai, Sōichi On the local invariant 1-cocycle theorem. **90e:32014**

Laurent, Yves Vanishing cycles and second microlocalization. **90c:32018**

— Construction des cycles évanescents d'un système différentiel par seconde microlocalisation. [Construction of the vanishing cycles of a differential system by second microlocalization] **90k:32043**

(Lê Dũng Tráng) *see* **Introduction to the algebraic theory of differential systems, 90f:58003**

Levasseur, T. (*with* Stafford, J. T.) Rings of differential operators on classical rings of invariants. **90i:17018**

Lichtin, B. Poles of Dirichlet series and D-modules. **90m:11133**

— Poles of $|f(z,w)|^{2s}$ and roots of the b-function. **90k:32029**

— Erratum: "Generalized Dirichlet series and b-functions" [Compositio Math. **65** (1988), no. 1, 81–120; MR 89d:32030]. **90k:32050**

Lunts, Valery *see* **Bernstein, Joseph, 90b:58247**

Malgrange, Bernard Transformation de Fourier géometrique. [The geometric Fourier transform] **90c:58178**

Malm, D. R. Global and Krull dimension of Schmidt differential operator rings. **90h:16007**

McConnell, John Coulter (*with* Pettit, J. J.) Crossed products and multiplicative analogues of Weyl algebras. **90c:16011**

Musson, Ian M. Rings of differential operators and zero divisors. **90k:16014**

Opdam, E. M. Root systems and hypergeometric functions. III. **90k:17021**

Parshall, B. *see* **Cline, E.; et al., 90d:18005**

Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. **90e:33018**

Perkins, Patrick T. Commutative subalgebras of the ring of differential operators on a curve. **90j:14035**

Pettit, J. J. *see* **McConnell, John Coulter, 90c:16011**

Pham, F. Resurgence, quantized canonical transformations, and multi-instanton expansions. **90m:81126**

Saito, Morihiko Modules de Hodge polarisables. [Polarizable Hodge modules] **90k:32038**

Schapira, Pierre Cycles lagrangiens, fonctions constructibles et applications. [Lagrangian cycles, constructible functions and applications] **90j:58140**

Scott, Leonard L. *see* **Cline, E.; et al., 90d:18005**

Stafford, J. T. *see* **Levasseur, T., 90i:17018**

Tanisaki, Toshiyuki Representations of semisimple Lie groups and D-modules. (Japanese) **90j:22017**

Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] **90k:32046**

Van den Bergh, Michel *see* **Asensio, Maria Jesus; et al., 90c:16001**

Van Oystaeyen, F. *see* **Asensio, Maria Jesus; et al., 90c:16001**

Wodzicki, Mariusz Noncommutative residue. I. Fundamentals. **90a:58175**

(Yamamoto, Yutaka) *see* **Kaneko, Akira, 90m:32017**

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Colloquium:

Introduction to the Algebraic Theory of Differential Systems ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] **90f:58003**

Introduction à la théorie algébrique des systèmes différentiels ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] **90f:58003**

Introduction to the algebraic theory of differential systems ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] **90f:58003**

Plans-sur-Bex ★ Introduction à la théorie algébrique des systèmes différentiels. (French) [Introduction to the algebraic theory of differential systems] **90f:58003**

32C40 Singularities

Aleksandrov, A. G. Nonisolated Saito singularities. **90b:32024**

Arnol'd, V. I. A-graded algebras and continued fractions. **90h:32025**

Cartier, Pierre Jacobiennes généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] **90d:32024**

Duval, Julien Convexité rationnelle des tores lagrangiéns de $\mathbf{C}^2$. (English summary) [Rational convexity of Lagrangian tori in $\mathbf{C}^2$] **90a:32016**

(Enta, Yoichi) *see* **Orlik, Peter, 90h:32028**

Falk, Michael J. The cohomology and fundamental group of a hyperplane complement. **90h:32026**

Fiedler, Thomas Complex plane curves in the ball. **90g:32013**

Gel'fand, I. M. (*with* Rybnikov, G. L.) Algebraic and topological invariants of oriented matroids. **90k:32042**

Hauser, H. (*with* Randell, R.) Report on the problem session. **90c:32017**

Jambu, Michel Yves (*with* Terao, Hiroaki) Arrangements of hyperplanes and broken circuits. **90f:32013**

Kato, Tomohisa On the intersection homology group of an analytic space of dimension 2. **90e:32013**
Kawai, Sōichi On the local invariant 1-cocycle theorem. **90e:32014**
Kohno, Toshitake One-parameter family of linear representations of Artin's braid groups. **90d:32025**
Laurent, Yves Vanishing cycles and second microlocalization. **90c:32018**
— Construction des cycles évanescents d'un système différentiel par seconde microlocalisation. [Construction of the vanishing cycles of a differential system by second microlocalization] **90k:32043**
Miodek, Andrzej The generalized parametric multiplicity. (Polish summary) **90a:32017**
— On some method of calculating a multiplicity. (Polish summary) **90a:32018**
Moishezon, B. (*with* Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in CP^2. **90f:32014**
Nagase, Masayoshi Pure Hodge structure of the harmonic L^2-forms on singular algebraic surfaces. **90h:32027**
Oka, Mutsuo[1] On the stratification of the discriminant varieties. **90f:32015**
Orlik, Peter ★ Introduction to arrangements. **90i:32018**
— Basic derivations for unitary reflection groups. **90h:32028**
— Stratification of the discriminant in reflection groups. **90d:32026**
Pascual Gainza, P. Théorèmes sur la monodromie. [Monodromy theorems] (*see* **90a:14024**)
Pellikaan, Ruud Series of isolated singularities. **90k:32044**
Perron, B. Les cycles évanescents sont dénoués. [Vanishing cycles are unknotted] **90j:32014**
Randell, R. *see* **Hauser, H., 90c:32017**
Rybnikov, G. L. *see* **Gel'fand, I. M., 90k:32042**
Sakurai, Kouichi (*with* Yoshida, Masaaki) Fuchsian systems associated with the $\mathrm{P}^2(\mathrm{F}_2)$-arrangement. **90j:32015**
Salvetti, Mario On the homotopy type of the complement to an arrangement of lines in $\mathbf{C}^2$. (Italian summary) **90b:32025**
Steenbrink, J. H. M. The spectrum of hypersurface singularities. **90m:32027**
Teicher, M. *see* **Moishezon, B., 90f:32014**
Terao, Hiroaki The Jacobians and the discriminants of finite reflection groups. **90m:32028**
— *see also* **Jambu, Michel Yves, 90f:32013** *and* **Orlik, Peter, 90h:32028**
Varchenko, A. N. Functional equations for the volume mapping. (Russian) **90g:32014**
Vasil'ev, V. A. Cohomology of braid groups and the complexity of algorithms. **90i:32019**
Yoshida, Masaaki *see* **Sakurai, Kouichi, 90j:32015**
Ziegler, Günter M. Multiarrangements of hyperplanes and their freeness. **90e:32015**
— Combinatorial construction of logarithmic differential forms. **90j:32016**
— Matroid representations and free arrangements. **90k:32045**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Orlik, Peter, 90i:32018**

Items with secondary classifications in 32C40

Adkins, William A. Lifting homeomorphisms of a complex surface to its normalization. **90j:32010**
Aomoto, K. A construction of integrable differential system associated with braid groups. **90h:14017**
— On the complex Selberg integral. **90m:58244**
Brieskorn, E. Automorphic sets and braids and singularities. **90a:32024**
Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] **90d:52020**
Camacho, César (*with* Sad, P.) ★ Pontos singulares de equações diferenciais analíticas. (Portuguese) [Singular points of analytic differential equations] **90a:58126**
Cano, Felipe Equidesingularization for plane vector fields. (Spanish. English summary) **90h:32029**
Cerveau, Dominique (*with* Moussu, R.) Groupes d'automorphismes de $(\mathbf{C},0)$ et équations différentielles $ydy+\cdots=0$. (English summary) [Groups of automorphisms of $(\mathbf{C},0)$ and differential equations of the form $ydy+\cdots=0$] **90m:58192**
Chalykh, O. A. Some properties of polynomial mappings that are connected with Lie algebras. **90b:17011**
Damon, James Topological equivalence for nonisolated singularities and global affine hypersurfaces. **90j:58009**
Dethloff, Gerd-E. On essential singularities of meromorphic mappings. **90a:32020**
Dimca, A. On the fundamental group of the complement of an analytic hypersurface. **90b:32019**
Eguchi, Tohru (*with* Ooguri, Hirosi) Differential equations for characters of Virasoro and affine Lie algebras. **90b:17026**
Falk, Michael J. (*with* Randell, R.) Pure braid groups and products of free groups. **90d:20070**
Gaffney, Terence Multiple points, chaining and Hilbert schemes. **90g:14008**
Gel'fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Projective-dual varieties and hyperdeterminants. **90m:14045**
Holzapfel, R.-P. Chern number relations for locally abelian Galois coverings of algebraic surfaces. **90f:14005**
Igusa, Jun-ichi b-functions and p-adic integrals. **90i:11140**
de Jong, Theo Some classes of line singularities. **90a:32013**
Kahn, Constantin P. M. ★ Reflexive Moduln auf einfach-elliptischen Flächensingularitäten. (German) [Reflexive modules over simply elliptic surface singularities] **90h:14045**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 90m:14045**
Khenkin, G. M. (*with* Polyakov, P. L.) The Grothendieck-Dolbeault lemma for complete intersections. (French summary) **90f:32007**
Lichtin, B. Erratum: "Generalized Dirichlet series and b-functions" [Compositio Math. 65 (1988), no. 1, 81–120; MR 89d:32030]. **90k:32050**
Loeser, F. Fonctions zêta locales d'Igusa à plusieurs variables, intégration dans les fibres, et discriminants. [Igusa's local zeta functions in several variables, integration in fibers, and discriminants] **90m:11194**
Long, D. D. On the linear representation of braid groups. II. **90j:20081**
Manin, Yu. I. (*with* Shekhtman, V. V.) Arrangements of real hyperplanes and Zamolodchikov equations. **90d:58056**
Moussu, R. *see* **Cerveau, Dominique, 90m:58192**
Neumann, Walter D. On bilinear forms represented by trees. **90m:11059**
Oka, Mutsuo[1] On the weak simultaneous resolution of a negligible truncation of the Newton boundary. **90h:32030**
Ooguri, Hirosi *see* **Eguchi, Tohru, 90b:17026**
Orlik, Peter (*with* Solomon, Louis) Braids and discriminants. **90g:57001**
O'Shea, Donal B. Spaces of limiting tangent spaces. **90h:32020**
Paul, Emmanuel Étude topologique des formes logarithmiques fermées. [Topological study of closed logarithmic forms] **90f:32023**
Polyakov, P. L. *see* **Khenkin, G. M., 90f:32007**
Ramis, J.-P. (*with* Sibuya, Y.) Hukuhara domains and fundamental existence and uniqueness theorems for asymptotic solutions of Gevrey type. **90k:58209**
Randell, R. Lattice-isotopic arrangements are topologically isomorphic. **90a:57032**
— *see also* **Falk, Michael J., 90d:20070**
Reichard, K. (*with* Spallek, K.) Product singularities and quotients. **90d:32046**
— (*with* Spallek, K.) Product singularities and quotients of linear groups. **90e:58010**
Rudolph, Lee Quasipositivity and new knot invariants. **90k:57009**
Sabbah, C. Proximité évanescente. II. Équations fonctionnelles pour plusieurs fonctions analytiques. (English summary) [Vanishing proximity. II. Functional equations for several analytic functions] **90a:32015**
Sad, P. *see* **Camacho, César, 90a:58126**
Saeki, Osamu Topological types of complex isolated hypersurface singularities. **90c:32012**
Salvetti, Mario Generalized braid groups and self-energy Feynman integrals. **90e:55017**
Seeley, Craig (*with* Yau, Stephen S.-T.) Variation of complex structures and variation of Lie algebras. **90k:32067**
Shekhtman, V. V. *see* **Manin, Yu. I., 90d:58056**
Sibuya, Y. *see* **Ramis, J.-P., 90k:58209**
Solomon, Louis *see* **Orlik, Peter, 90g:57001**
Spallek, K. *see* **Reichard, K., 90d:32046** *and* **90e:58010**
Thom, René Sur les bouts d'une feuille d'un feuilletage au voisinage d'un point singulier isolé. (English summary) [On the ends of a leaf of a foliation in the neighborhood of an isolated singular point] **90a:57043**
Varchenko, A. N. The numbers of faces of a configuration of hyperplanes. **90i:52018**
Xu, Yijing (*with* Yau, Stephen S.-T.) The inequality $\mu \geq 12p_g - 4$ for hypersurface weakly elliptic singularities. **90g:32009**
Yau, Stephen S.-T. The multiplicity of isolated two-dimensional hypersurface singularities: Zariski problem. **90i:14039**
— *see also* **Xu, Yijing, 90g:32009** *and* **Seeley, Craig, 90k:32067**
Yoshida, Masaaki ★ Fuchsian differential equations. **90f:32025**
Zaslavskiĭ, A. I. On the behavior of massless Feynman integrals near singular points. **90j:81053**
Zelevinskiĭ, A. V. *see* **Gel'fand, I. M.; et al., 90m:14045**

32C42 Stratified sets, etc. [see also 32Bxx]

Hamm, Helmut A. (*with* Lê Dũng Tráng) Local generalizations of Lefschetz-Zariski theorems. **90a:32019**
Lê Dũng Tráng *see* **Hamm, Helmut A., 90a:32019**
Parusiński, Adam Lipschitz properties of semi-analytic sets. (French summary) **90e:32016**
Trotman, David Une version microlocale de la condition (w) de Verdier. (English summary) [A microlocal version of Verdier's condition (w)] **90k:32046**

Items with secondary classifications in 32C42

Gel'fand, I. M. (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Hypergeometric functions and toric varieties. **90m:22025**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Projective-dual varieties and hyperdeterminants. **90m:14045**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) A-discriminants and Cayley-Koszul complexes. **90k:14054**
— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Newton polyhedra of principal A-determinants. **90k:14055**
— *see also* **Vasil'ev, V. A.; et al., 90b:22014**
Goresky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**
Joshua, Roy Equivariant intersection cohomology—a survey. **90f:55012**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 90k:14054; 90k:14055; 90m:14045** *and* **90m:22025**
Kirwan, Frances ★ An introduction to intersection homology theory. **90e:55013**
Łojasiewicz, Stanisław Stratifications et triangulations sous-analytiques. [Subanalytic stratifications and triangulations] **90g:32007**
MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**
Ohsawa, Takeo An extension of Hodge theory to Kähler spaces with isolated singularities of restricted type. **90m:32046**
Orlik, Peter Stratification of the discriminant in reflection groups. **90d:32026**
Saito, Morihiko Modules de Hodge polarisables. [Polarizable Hodge modules] **90k:32038**
Salvetti, Mario Generalized braid groups and self-energy Feynman integrals. **90e:55017**
Vasil'ev, V. A. (*with* Gel'fand, I. M.; Zelevinskiĭ, A. V.) General hypergeometric functions on complex Grassmannians. (Russian) **90b:22014**
Yokura, Shoji On a generalization of MacPherson's Chern homology class. **90m:32044**
Zelevinskiĭ, A. V. *see* **Vasil'ev, V. A.; et al., 90b:22014; Gel'fand, I. M.; et al., 90k:14054; 90k:14055; 90m:14045** *and* **90m:22025**

32C45 Modifications, resolution of singularities [see also 14E15]

Cano, Felipe ★ Desingularization strategies for three-dimensional vector fields. **90i:32020a**
— ★ Desingularization strategies for three-dimensional vector fields. **90i:32020b**
— Equidesingularization for plane vector fields. (Spanish. English summary) **90h:32029**
— Réduction des singularités des feuilletages holomorphes. (English summary) [Reduction of the singularities of holomorphic foliations] **90g:32015**
— Dicritical singular foliations. (Spanish) **90k:32047**
Oka, Mutsuo[1] On the weak simultaneous resolution of a negligible truncation of the Newton boundary. **90h:32030**

Stevens, Jan Improvements of nonisolated surface singularities. **90d:32027**

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Lecture Notes in Mathematics *see* **Cano, Felipe, 90i:32020b**

Items with secondary classifications in 32C45

Greuel, Gert-Martin (*with* Karras, Ulrich) Families of varieties with prescribed singularities. **90d:32037**

Kahn, Constantin P. M. Reflexive modules on minimally elliptic singularities. **90i:14011**

Karras, Ulrich *see* **Greuel, Gert-Martin, 90d:32037**

Kato, Tomohisa On the intersection homology group of an analytic space of dimension 2. **90e:32013**

Kawai, Toshiya Singularity theory and the Z_N charge structure of $N=2$ superconformal field theory. **90j:81212**

Medvedeva, N. B. The first focus quantity of a complex monodromic singularity. (Russian. English summary) **90a:58136**

Oda, Takayuki Hodge numbers of a Kummer covering of $\mathbf{P}^2$ ramified along a line configuration. **90f:14006**

Ogata, Shoetsu Non-Kähler manifolds and ball-product cusp singularities. **90i:32038**

Oka, Mutsuo^1 On the deformation of certain type of algebraic varieties. **90e:14051**

Sussmann, H. J. Real analytic desingularization and subanalytic sets: an elementary approach. **90e:32007**

32C99 None of the above, but in this section

Items with secondary classifications in 32C99

Hamm, Helmut A. (*with* Lê Dũng Tráng) Local generalizations of Lefschetz-Zariski theorems. **90a:32019**

Holzapfel, R.-P. Chern number relations for locally abelian Galois coverings of algebraic surfaces. **90f:14005**

Lê Dũng Tráng *see* **Hamm, Helmut A., 90a:32019**

Lounesto, Pertti (*with* Springer, Arthur) Möbius transformations and Clifford algebras of Euclidean and anti-Euclidean spaces. **90d:30131**

Merzlyakov, S. G. Spectral synthesis for Euler type operators. (Russian summary) **90e:47022**

Samkova, G. E. Existence of a formal exponential series of a complex differential system near a fixed singular point. (Russian) **90d:34020**

Springer, Arthur *see* **Lounesto, Pertti, 90d:30131**

32Dxx Analytic continuation

32D05 Domains of holomorphy

Kimura, Ikuo (*with* Ooishi, Yukinaga) On a family of holomorphy domains. **90h:32031**

Ooishi, Yukinaga *see* **Kimura, Ikuo, 90h:32031**

Pflug, P. Functions of restricted growth and invariant distances in complex analysis. **90i:32021**

Znamenskiĭ, S. V. The existence of holomorphic primitives in all directions. **90c:32019**

Items with secondary classifications in 32D05

Colţoiu, Mihnea Remarques sur les réunions croissantes d'ouverts de Stein. (English summary) [Remarks on increasing sequences of Stein open sets] **90b:32030**

Nôno, Kiyoharu Domains of hyperholomorphy in $\mathbf{C}^2\times\mathbf{C}^2$. **90k:30091**

Ryan, John Dirac operators, Schrödinger type operators in $\mathbf{C}^n$, and Huygens principle. **90k:58261**

32D10 Envelopes of holomorphy

Brummelhuis, R. G. M. (*with* de Paepe, P. J.) Derivations on algebras of holomorphic functions. **90h:32032**

Hayes, Sandra (*with* Pourcin, Geneviève) Dimension of holomorphic extensions of complex spaces. **90k:32048**

de Paepe, P. J. *see* **Brummelhuis, R. G. M., 90h:32032**

Pourcin, Geneviève *see* **Hayes, Sandra, 90k:32048**

Items with secondary classifications in 32D10

Barrett, D. E. (*with* Bedford, E.; Dadok, Jiri) T^n-actions on holomorphically separable complex manifolds. **90k:32003**

Bedford, E. *see* **Barrett, D. E.; et al., 90k:32003**

Dadok, Jiri *see* **Barrett, D. E.; et al., 90k:32003**

Genchev, T. G. A weighted version of the Paley-Wiener theorem. **90b:32004**

Wermer, John Polynomial hulls and envelopes of holomorphy. **90b:32031**

32D15 Continuation of analytic objects

Aĭrapetyan, R. A. A generalization of the Kneser theorem on an embedded edge. (Russian) **90k:32049**

Bedford, E. (*with* Pinchuk, S. I.) Analytic continuation of biholomorphic maps. **90b:32026**

Grzybowski, Jerzy Analytic continuation from compact set. **90h:32033**

Kazaryan, M. V. On the "edge of the wedge" theorem for meromorphic functions. (Russian. Armenian summary) **90b:32027**

— Holomorphic continuation of functions with pluripolar singularities. (Russian. Armenian summary) **90g:32016**

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) q-convexité et extension de formes différentielles CR. (English summary) [q-convexity and extension of CR differential forms] **90b:32028**

Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 90b:32028**

Lichtin, B. Erratum: "Generalized Dirichlet series and b-functions" [Compositio Math. **65** (1988), no. 1, 81–120; MR 89d:32030]. **90k:32050**

Lupacciolu, Guido Some remarks on the hypoellipticity of the $\overline{\partial}$-problem and the local extendibility of CR-functions. (Italian summary) **90k:32051**

Mkrtchyan, E. S. Description of domains of homogeneous summability of a power series in $\mathbf{C}^n$. **90j:32017**

Pinchuk, S. I. *see* **Bedford, E., 90b:32026**

Semenov, A. M. Holomorphic extension from spheres into $\mathbf{C}^n$. **90h:32034**

Sukhov, A. B. Analytic continuation through generating manifolds. (Russian) **90k:32052**

Items with secondary classifications in 32D15

Baouendi, M. S. (*with* Rothschild, L. P.) CR mappings between real hypersurfaces in complex space. **90h:32056**

— (*with* Rothschild, L. P.) Extension of holomorphic functions in generic wedges and their wave front sets. **90b:32036**

— (*with* Bell, S. R.; Rothschild, L. P.) Mappings of three-dimensional CR manifolds and their holomorphic extension. **90a:32035**

— (*with* Rothschild, L. P.) Germs of CR maps between real analytic hypersurfaces. **90a:32036**

Bell, S. R. *see* **Baouendi, M. S.; et al., 90a:32035**

Colombeau, J.-F. (*with* Galé, José E.) Analytic continuation of generalized functions. **90d:46060**

Faran, James J., V A reflection principle for proper holomorphic mappings and geometric invariants. **90k:32082**

Galé, José E. *see* **Colombeau, J.-F., 90d:46060**

Genchev, T. G. A weighted version of the Paley-Wiener theorem. **90b:32004**

Ivashkovich, S. M. A Thullen-type extension theorem for line bundles with L^2-bounded curvature. **90e:32033**

Khudaĭberganov, G. The Carathéodory-Fejér problem in the generalized unit disk. **90k:32004**

Kozłowski, Wojciech M. (*with* Lewicki, Grzegorz) Analyticity and polynomial approximation in modular function spaces. **90f:46048**

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) On the Hartogs-Bochner extension phenomenon for differential forms. **90c:32026**

Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 90c:32026**

Lewicki, Grzegorz *see* **Kozłowski, Wojciech M., 90f:46048**

Ôaku, Toshinori Higher-codimensional boundary value problem and F-mild hyperfunctions. **90k:58208**

Rothschild, L. P. *see* **Baouendi, M. S.; et al., 90a:32035; 90a:32036; 90b:32036** *and* **90h:32056**

Russakovskiĭ, A. M. On continuation with estimates from analytic sets of codimension 1. (Russian) **90k:32006**

Uzakov, M. M. Stability of a multidimensional problem of the analytic continuation of a bounded analytic function from Jacobi nodes. (Russian) **90d:30007**

32D20 Removable singularities

Ben Yattou, M. L. Extending plurisubharmonic and holomorphic functions. **90c:32020**

Dethloff, Gerd-E. On essential singularities of meromorphic mappings. **90a:32020**

Elin, M. M. Generalization of the Hurwitz composition. **90c:32021**

Struppa, Daniele C. The first eighty years of Hartogs' theorem. **90b:32029**

Items with secondary classifications in 32D20

Dolbeault, Pierre (*with* Ławrynowicz, Julian) Holomorphic chains and extendability of holomorphic mappings. **90f:32027**

Hayes, Sandra (*with* Pourcin, Geneviève) Global construction of the normalization of Stein spaces. **90d:32029**

Ławrynowicz, Julian *see* **Dolbeault, Pierre, 90f:32027**

Pourcin, Geneviève *see* **Hayes, Sandra, 90d:32029**

Shatalov, V. E. *see* **Sternin, B. Yu., 90k:32014**

Sternin, B. Yu. (*with* Shatalov, V. E.) A new class of integral representations in complex analysis. (Russian) **90k:32014**

Szmydt, Zofia (*with* Ziemian, Bogdan) Local existence and regularity of solutions of singular elliptic operators on manifolds with corner singularities. **90m:35057**

Tarkhanov, N. N. A family of capacities that characterize removable singularities. **90e:31005**

— Removable singularities of Hölder solutions of elliptic systems. (Russian) **90g:35047**

Ziemian, Bogdan *see* **Szmydt, Zofia, 90m:35057**

32D25 Non-Archimedean function theory

Items with secondary classifications in 32D25

Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] **90i:32024**

Morita, Yasuo A p-adic theory of hyperfunctions. II. **90g:32012**

32D99 None of the above, but in this section

Escassut, Alain Derivative of analytic elements on infraconnected clopen sets. **90d:32028**

Items with secondary classifications in 32D99

Graham, Carl (*with* Lee, John M.) Smooth solutions of degenerate Laplacians on strictly pseudoconvex domains. **90c:32031**

Lee, John M. *see* **Graham, Carl, 90c:32031**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Items with secondary classifications in 32E05

Bloom, Thomas On the convergence of multivariable Lagrange interpolants. **90m:32032**

32E10 Stein spaces, Stein manifolds

Aytuna, A. On Stein manifolds M for which $\mathscr{O}(M)$ is isomorphic to $\mathscr{O}(\Delta^n)$ as Fréchet spaces. **90a:32021**

Colţoiu, Mihnea Remarques sur les réunions croissantes d'ouverts de Stein. (English summary) [Remarks on increasing sequences of Stein open sets] **90b:32030**

— (*with* Mihalache, Nicolae) Pseudoconvex domains on complex spaces with singularities. **90m:32029**

Gromov, Mikhael L. Oka's principle for holomorphic sections of elliptic bundles. **90g:32017**

Hayes, Sandra (*with* Pourcin, Genevieve) Global construction of the normalization of Stein spaces. **90d:32029**

Mihalache, Nicolae *see* **Colţoiu, Mihnea, 90m:32029**

Neeman, Amnon Ueda theory: theorems and problems. **90d:32030**

Pourcin, Geneviève *see* **Hayes, Sandra, 90d:32029**

Shatalov, V. E. *see* **Sternin, B. Yu., 90k:32053**

Sternin, B. Yu. (*with* Shatalov, V. E.) Solvability of Cousin's first problem for a class of multivalued analytic functions. (Russian) **90k:32053**

Uda, Toshio The exhaustion theorem on the images of open holomorphic maps of $\mathbf{C}^n$. **90h:32035a**

— A note on the union problem on quotient complex spaces of proper G-spaces. **90h:32035b**

Watanabe, Kiyoshi A domain in a Grassmann manifold with vanishing cohomology sets. **90c:32022**

Zhou, Xiang Yu Embedding strictly pseudoconvex domains into balls. (Chinese) **90i:32022**

Items with secondary classifications in 32E10

(Akhiezer, D. N.) *see* **Grauert, Hans, 90h:32001**

Barrett, D. E. (*with* Fornæss, J. E.) On the smoothness of Levi-foliations. **90b:32037**

Feldmüller, Dorothee The Picard group of a complex quotient variety. **90k:32091**

Fornæss, J. E. *see* **Barrett, D. E., 90b:32037**

Gramsch, Bernhard (*with* Kaballo, Winfried) Decompositions of meromorphic Fredholm resolvents and Ψ^*-algebras. **90d:47016**

Grauert, Hans (*with* Remmert, R.) ★ Теория пространств Штейна. (Russian) [Theory of Stein spaces] **90h:32001**

Heinzner, Peter Fixpunktmengen kompakter Gruppen in Teilgebieten Steinscher Mannigfaltigkeiten. [Fixed point sets of compact groups in subdomains of Stein manifolds] **90k:32092**

— Kompakte Transformationsgruppen Steinscher Räume. [Compact transformation groups of Stein spaces] **90m:32051**

Kaballo, Winfried *see* **Gramsch, Bernhard, 90d:47016**

Loeb, Jean-Jacques Quelques aspects de l'analyse complexe sur les groupes de Lie. [Some aspects of complex analysis on Lie groups] **90a:32040**

(Onishchik, A. L.) *see* **Grauert, Hans, 90h:32001**

Remmert, R. *see* **Grauert, Hans, 90h:32001**

Winkelmann, Jörg On free holomorphic $\mathbf{C}$-actions on $\mathbf{C}^n$ and homogeneous Stein manifolds. **90k:32094**

32E15 Runge pairs

Items with secondary classifications in 32E15

Gromov, Mikhael L. Oka's principle for holomorphic sections of elliptic bundles. **90g:32017**

32E20 Polynomial convexity

Alexander, H. (*with* Wermer, John) Polynomial hulls of sets with intervals as fibers. **90e:32017**

Anderson, John T. Polynomial hulls of sets invariant under an action of the special unitary group. **90c:32023**

Forstnerič, Franc Polynomial hulls of sets fibered over the circle. **90g:32018**

Kumagai, Donna Variation of fibers and polynomially convex hulls. **90m:32030**

Smirnov, M. M. Spherical projection of the Shilov boundary. (Russian) **90c:32024**

Wermer, John Polynomial hulls and envelopes of holomorphy. **90b:32031**

— *see also* **Alexander, H., 90e:32017**

Items with secondary classifications in 32E20

Besada, Manuel (*with* Estévez, Margarita; Hervés, Carlos) Some results on entire functions with weak continuity properties in Banach spaces. (Spanish. English summary) **90e:46035**

Estévez, Margarita *see* **Besada, Manuel; et al., 90e:46035**

Goldmann, H. An analytic algebra without analytic structure in the spectrum. **90e:46042**

Hervés, Carlos *see* **Besada, Manuel; et al., 90e:46035**

Lutterodt, C. H. A generalized Oka-Weil approximation in a polynomial polyhedron in $\mathbf{C}^n$. **90d:32032**

Słodkowski, Zbigniew Approximation of analytic multifunctions. **90h:32040**

32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Adachi, Kenzō Generators for the algebra of holomorphic functions in certain pseudoconvex domains. **90h:32036**

Dau The Cap Two counterexamples to Noetherianness of algebras $\mathscr{O}(K)$. **90i:32023**

— (*with* Nguyen Huu Vien) On Noetherianness and Laskerianness of algebras of germs of holomorphic functions on compact subsets. **90m:32031**

Krantz, S. G. (*with* Ma, Dao Wei) On isometric isomorphisms of the Bloch space on the unit ball of $\mathbf{C}^n$. **90d:32031**

Ma, Dao Wei *see* **Krantz, S. G., 90d:32031**

Nguyen Huu Vien *see* **Dau The Cap, 90m:32031**

Items with secondary classifications in 32E25

Axler, Sheldon (*with* Gorkin, Pamela) Sequences in the maximal ideal space of H^∞. **90h:46087**

Brummelhuis, R. G. M. (*with* de Paepe, P. J.) Derivations on algebras of holomorphic functions. **90h:32032**

Coen, Salvatore A remark on characters and point evaluations. (Italian summary) **90c:32016**

Gamelin, T. W. On analytic disks in the spectrum of a uniform algebra. **90d:46076**

Goldmann, H. An analytic algebra without analytic structure in the spectrum. **90e:46042**

Gorkin, Pamela *see* **Axler, Sheldon, 90h:46087**

Hayes, Sandra (*with* Pourcin, Geneviève) Global construction of the normalization of Stein spaces. **90d:32029**

Hedenmalm, Håkan Outer functions of several complex variables. **90g:32006**

— Outer functions in function algebras on the bidisc. **90c:32007**

— Closed ideals in the ball algebra. **90k:46120**

Meise, Reinhold Sequence space representations for zero-solutions of convolution equations on ultradifferentiable functions of Roumieu type. **90a:46089**

de Paepe, P. J. *see* **Brummelhuis, R. G. M., 90h:32032**

Petrosyan, A. I. Peak and interpolation sets for algebras of smooth functions in the polydisc and in the future tube. **90d:46080**

Pourcin, Geneviève *see* **Hayes, Sandra, 90d:32029**

Rahman, Md. Muklesur On the algebraic structures of a class of entire multiple Dirichlet series in several complex variables. **90m:32009**

32E27 Krasner-Tate algebras, etc. (algebras of holomorphic functions over non-Archimedean fields)

Escassut, Alain Factorisation de Hensel pour les séries à coefficients analytiques. [Hensel factorization for series with analytic coefficients] **90i:32024**

Items with secondary classifications in 32E27

Escassut, Alain (*with* Sarmant-Durix, Marie-Claude) The differential equation $y' = fy$ in the algebras $H(D)$. **90k:46166**

Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open subsets of an algebraic curve in rigid geometry] **90f:32030**

Morita, Yasuo A p-adic theory of hyperfunctions. II. **90g:32012**

Sarmant-Durix, Marie-Claude *see* **Escassut, Alain, 90k:46166**

32E30 Holomorphic and polynomial approximation

Bloom, Thomas On the convergence of multivariable Lagrange interpolants. **90m:32032**

Lutterodt, C. H. Rational approximants of hypergeometric series in $\mathbf{C}^N$. **90k:32054**

— A generalized Oka-Weil approximation in a polynomial polyhedron in $\mathbf{C}^n$. **90d:32032**

Rosay, J.-P. (*with* Stout, Edgar Lee) On pluriharmonic interpolation. **90k:32055**

Shirokov, N. A. Jackson-Bernstein theorem in strictly pseudoconvex domains in $\mathbf{C}^n$. **90h:32037**

Stout, Edgar Lee *see* **Rosay, J.-P., 90k:32055**

Sultonov, N. R. The structure of a class of pseudoconcave sets. (Russian) **90m:32033**

— Rational approximation of functions with pluripolar sets of singularities. **90j:32018**

Items with secondary classifications in 32E30

Choi, U Jin *see* **Kwak, Do Y., 90g:47050**

Fornæss, J. E. (*with* Wiegerinck, Jan) Approximation of plurisubharmonic functions. **90i:32026**

Kozłowski, Wojciech M. (*with* Lewicki, Grzegorz) Analyticity and polynomial approximation in modular function spaces. **90f:46048**

Kwak, Do Y. (*with* Choi, U Jin) Bloch spaces in the ball and Hankel operators. **90g:47050**

Lewicki, Grzegorz *see* **Kozłowski, Wojciech M., 90f:46048**

Pawłucki, Wiesław (*with* Pleśniak, Wiesław) Approximation and extension of C^∞ functions defined on compact subsets of $\mathbf{C}^n$. **90e:26041**

Petrosyan, A. I. Peak and interpolation sets for algebras of smooth functions in the polydisc and in the future tube. **90d:46080**

Pleśniak, Wiesław *see* **Pawłucki, Wiesław, 90e:26041**

Słodkowski, Zbigniew Approximation of analytic multifunctions. **90h:32040**

Watanabe, Hiroshi[1] On the diagonalization in Bergman spaces. **90k:32022**

Wiegerinck, Jan *see* **Fornæss, J. E., 90i:32026**

32E35 Global boundary behavior of holomorphic functions

Items with secondary classifications in 32E35

Schüffler, Karl-Heinz On holomorphic functions on Riemann surfaces and the Riemann-Hilbert problem. **90k:46076**

32E99 None of the above, but in this section

Pillai, S. Unnikrishna *see* **Youla, Dante C., 90h:32038**

Youla, Dante C. (*with* Pillai, S. Unnikrishna) A uniqueness characterization in terms of signed magnitude for functions in the polydisc algebra $A(U^n)$. **90h:32038**

Items with secondary classifications in 32E99

Gurjar, R. V. Coverings of algebraic varieties. **90e:14012**

Helton, J. W. (*with* Schwartz, D. F.) Polynomially contractible sets. **90f:30016**

Khenkin, G. M. (*with* Polyakov, P. L.) Residue integral formulas and the Radon transform for differential forms on q-linearly concave domains. **90k:32013**

Kimura, Ikuo (*with* Ooishi, Yukinaga) On a family of holomorphy domains. **90h:32031**

Ooishi, Yukinaga *see* **Kimura, Ikuo, 90h:32031**

Polyakov, P. L. *see* **Khenkin, G. M., 90k:32013**
Schwartz, D. F. *see* **Helton, J. W., 90f:30016**

32Fxx Geometric convexity

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

Agranovskiĭ, M. L. (*with* Aĭzenberg, L. A.) Reconstruction of holomorphic and plurisubharmonic functions in circular domains from values on the torus. **90g:32019**
Aĭzenberg, L. A. *see* **Agranovskiĭ, M. L., 90g:32019**
Baran, Mirosław Siciak's extremal function of convex sets in $\mathbf{C}^N$. **90j:32019**
Bedford, E. (*with* Taylor, B. A.) Plurisubharmonic functions with logarithmic singularities. (French summary) **90f:32016**
— (*with* Demailly, Jean-Pierre) Two counterexamples concerning the pluri-complex Green function in $\mathbf{C}^n$. **90d:32033**
— (*with* Taylor, B. A.) Uniqueness for the complex Monge-Ampère equation for functions of logarithmic growth. **90i:32025**
Demailly, Jean-Pierre *see* **Bedford, E., 90d:32033**
Fornæss, J. E. (*with* Wiegerinck, Jan) Approximation of plurisubharmonic functions. **90i:32026**
— (*with* Sibony, Nessim) Construction of P.S.H. functions on weakly pseudoconvex domains. **90m:32034**
Kaneko, Hiroshi[2] A stochastic approach to a Liouville property for plurisubharmonic functions. **90b:32032**
Kołodziej, S. The logarithmic capacity in $\mathbf{C}^n$. **90f:32017**
— Capacities associated to the Siciak extremal function. **90h:32039**
Sibony, Nessim *see* **Fornæss, J. E., 90m:32034**
Sinha, Amritasu Kumar On the growth of a class of plurisubharmonic functions in a unit disc. **90k:32056**
Słodkowski, Zbigniew Approximation of analytic multifunctions. **90h:32040**
— Pseudoconvex classes of functions. II. Affine pseudoconvex classes on $\mathbf{R}^N$. **90m:32035**
Suzuki, Makoto The singular Dirichlet problem for the complex Monge-Ampère operator on complex manifolds. **90c:32025**
Taylor, B. A. *see* **Bedford, E., 90f:32016** *and* **90i:32025**
Wiegerinck, Jan *see* **Fornæss, J. E., 90i:32026**

Items with secondary classifications in 32F05

Aytuna, A. On Stein manifolds M for which $\mathscr{O}(M)$ is isomorphic to $\mathscr{O}(\Delta^n)$ as Fréchet spaces. **90a:32021**
Ben Yattou, M. L. Extending plurisubharmonic and holomorphic functions. **90c:32020**
(Favorov, S. Yu.) *see* **Lelong, Pierre, 90i:32002**
Gruman, L. *see* **Lelong, Pierre, 90i:32002**
Hervé, Michel ★ Analyticity in infinite-dimensional spaces. **90f:46074**
Lelong, Pierre (*with* Gruman, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] **90i:32002**
(Ronkin, L. I.) *see* **Lelong, Pierre, 90i:32002**
(Russakovskiĭ, A. M.) *see* **Lelong, Pierre, 90i:32002**
Sekerin, A. B. Integral representation of subharmonic functions. (Russian) (*see* **90d:41001**)
— An integral representation of plurisubharmonic functions. (Russian) **90a:32007**
Tamrazov, P. M. Removal of singularities of subharmonic, plurisubharmonic functions and their generalizations. **90d:31011**
Uda, Toshio The exhaustion theorem on the images of open holomorphic maps of $\mathbf{C}^n$. **90h:32035a**
— A note on the union problem on quotient complex spaces of proper G-spaces. **90h:32035b**
Zériahi, Ahmed Ensembles pluripolaires exceptionnels pour la croissance partielle des fonctions holomorphes. [Exceptional pluripolar sets for the partial growth of holomorphic functions] **90i:32005**
Zhang, Jin Hao Chern-Levin [Levine]-Nirenberg norm on homology class. **90d:32018**

32F10 q-convexity, q-concavity

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) On the Hartogs-Bochner extension phenomenon for differential forms. **90c:32026**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 90c:32026**
Nacinovich, M. On strict Levi q-convexity and q-concavity on domains with piecewise smooth boundaries. **90b:32033**
Peternell, Mathias Algebraische Varietäten und q-vollständige komplexe Räume. [Algebraic varieties and q-complete complex spaces] **90c:32027**

Items with secondary classifications in 32F10

Barlet, Daniel (*with* Peternell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. **90m:14006**
Bauer, Ingrid (*with* Kosarew, Siegmund) On the Hodge spectral sequence for some classes of noncomplete algebraic manifolds. **90e:14019**
Khenkin, G. M. (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002a**
— (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002b**
Kosarew, Siegmund *see* **Bauer, Ingrid, 90e:14019**
Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) q-convexité et extension de formes différentielles CR. (English summary) [q-convexity and extension of CR differential forms] **90b:32028**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 90b:32028; Khenkin, G. M., 90h:32002a** *and* **90h:32002b**
Ma, Lan ★ Abschätzungen von Lösungen der ∂-Gleichung auf streng q-konvexen Mengen mit nicht glattem Rand. (German) [Estimates of solutions of the $\bar\partial$-equation on strongly q-convex sets with nonsmooth boundary] **90k:32060**
Peternell, Thomas *see* **Barlet, Daniel; et al., 90m:14006**
Schmalz, Gerd Solution of the $\bar\partial$-equation with uniform estimates on strictly q-convex domains with nonsmooth boundary. **90k:32062**
Schneider, Michael Hellmut *see* **Barlet, Daniel; et al., 90m:14006**
Słodkowski, Zbigniew Pseudoconvex classes of functions. II. Affine pseudoconvex classes on $\mathbf{R}^N$. **90m:32035**
Snow, Dennis M. Homogeneous vector bundles. **90m:14051**

32F15 Pseudoconvex domains

Boas, Harold P. (*with* Straube, Emil J.) Equivalence of regularity for the Bergman projection and the $\bar\partial$-Neumann operator. **90k:32057**
Kim, Kang Tae Theory of domains in $\mathbf{C}^n$ from geometric viewpoint. **90i:32027**
— Domains with noncompact automorphism groups. **90m:32036**
Kodama, Akio A characterization of certain domains with good boundary points in the sense of Greene-Krantz. **90f:32018**
Ligocka, Ewa A characterization of ellipsoids and balls in $\mathbf{C}^n$. **90m:32037**
Parrini, Carla Hölder estimates for $\bar\partial$ in some finite preimages of strictly pseudoconvex domains. (French summary) **90e:32018**
Ramadanov, Ivan Pierre Biholomorphy and pseudoconvexity. (Bulgarian) **90j:32020**
Shcherbina, N. V. An example of two pseudoconvex domains that are not separable by a Levi-flat hypersurface. **90g:32020**
Straube, Emil J. *see* **Boas, Harold P., 90k:32057**
Wen, Tao A theorem on pseudoconvex domains. (Chinese) **90k:32058**
Yamaguchi, Hiroshi[1] Variations of pseudoconvex domains over $\mathbf{C}^n$. **90k:32059**

Items with secondary classifications in 32F15

Abate, Marco Boundary behaviour of invariant distances and complex geodesics. **90c:32034**
Aladro, Gerardo The comparability of the Kobayashi approach region and the admissible approach region. **90g:32029**
Burns, Daniel M., Jr. (*with* Epstein, C. L.) Characteristic numbers of bounded domains. **90k:32063**
Chang, Der-Chen E. A note on the kernel of the $\bar\partial$-Neumann operator on strongly pseudoconvex domains. **90c:32029**
Chen, So-Chin Real analytic boundary regularity of the Cauchy kernel on convex domains. **90k:32012**
Colţoiu, Mihnea (*with* Mihalache, Nicolae) Pseudoconvex domains on complex spaces with singularities. **90m:32029**
Dau The Cap Two counterexamples to Noetherianness of algebras $\mathscr{O}(K)$. **90i:32023**
Dethloff, Gerd-E. A new proof of a theorem of Grauert and Remmert by L_2-methods. **90m:32024**
Epstein, C. L. *see* **Burns, Daniel M., Jr., 90k:32063**
Fornæss, J. E. (*with* Sibony, Nessim) Construction of P.S.H. functions on weakly pseudoconvex domains. **90m:32034**
Kim, Kang Tae Complete localization of domains with noncompact automorphism groups. **90i:32035**
Kori, Tosiaki Dual of the space of holomorphic functions with continuous boundary values on a strictly pseudo-convex domain in $\mathbf{C}^n$. **90k:32021**
Ligocka, Ewa On the Forelli-Rudin construction and weighted Bergman projections. **90i:32034**
Lupacciolu, Guido Some remarks on the hypoellipticity of the $\bar\partial$-problem and the local extendibility of CR-functions. (Italian summary) **90k:32051**
Mihalache, Nicolae *see* **Colţoiu, Mihnea, 90m:32029**
Patrizio, Giorgio On the convexity of the Kobayashi indicatrix. **90c:32036**
Perotti, Alessandro The equation $\bar\partial u = f$ on the intersection of pseudoconvex domains. (Italian summary) **90b:32006**
Peters, Konrad Uniform estimates for $\bar\partial$ on the intersection of two strictly pseudoconvex C^2-domains without transversality condition. **90g:32021**
Saint Raymond, Xavier Unicité de Cauchy à partir de surfaces faiblement pseudo-convexes. (English summary) [Cauchy uniqueness from weakly pseudoconvex surfaces] **90i:35007**
Sibony, Nessim *see* **Fornæss, J. E., 90m:32034**
Tajima, Shinichi Microlocal analyses of integral representation formulas for domains of type Re $z_2 + |z_1|^{2m} < 0$. (Italian. English summary) **90i:32029**
Venturini, Sergio Comparison between the Kobayashi and Carathéodory distances on strongly pseudoconvex bounded domains in $\mathbf{C}^n$. **90b:32049**
Zhou, Xiang Yu Embedding strictly pseudoconvex domains into balls. (Chinese) **90i:32022**

32F20 Geometric results on $\bar\partial$-Neumann problems [see also 35N15]

Akahori, Takao A remark on the local embedding theorem of CR-structures with higher codimension. **90e:32019**
Andersson, Mats Values in the interior of the L^2-minimal solutions of the $\partial\bar\partial$-equation in the unit ball of $\mathbf{C}^n$. **90c:32028**
Chang, Der-Chen E. A note on the kernel of the $\bar\partial$-Neumann operator on strongly pseudoconvex domains. **90c:32029**
Chen, So-Chin Global regularity of the $\bar\partial$-Neumann problem on circular domains. **90i:32028**
Derridj, Makhlouf Sur l'existence de solutions $C^{1,1/n}$, $C^{1,1}$ et C^2, radiales pour des équations de type Monge-Ampère complexe dans la boule unité de $\mathbf{C}^n$. [Existence of radial $C^{1,1/n}$, $C^{1,1}$ and C^2 solutions for complex Monge-Ampère equations in the unit ball in $\mathbf{C}^n$] **90b:32034**
Jakóbczak, Piotr Boundary regularity of the solution of the $\bar\partial$-equation in the polydisc. **90f:32019**
Lu, Qi Keng Green form to intrinsic metric of a ball. **90h:32041**
Ma, Lan ★ Abschätzungen von Lösungen der ∂-Gleichung auf streng q-konvexen Mengen mit nicht glattem Rand. (German) [Estimates of solutions of the $\bar\partial$-equation on strongly q-convex sets with nonsmooth boundary] **90k:32060**
Nadel, Alan Michael Multiplier ideal sheaves and existence of Kähler-Einstein metrics of positive scalar curvature. **90k:32061**

Peters, Konrad Uniform estimates for $\overline{\partial}$ on the intersection of two strictly pseudoconvex C^2-domains without transversality condition. **90g:32021**
Schmalz, Gerd Solution of the $\overline{\partial}$-equation with uniform estimates on strictly q-convex domains with nonsmooth boundary. **90k:32062**
Strauß, Albrecht ★ Integralformeln und a priori-Abschätzungen für das $\overline{\partial}$-Neumann-Problem. (German) [Integral formulas and a priori estimates for the $\overline{\partial}$-Neumann problem] **90a:32022**
Tajima, Shinichi Microlocal analyses of integral representation formulas for domains of type $\operatorname{Re} z_2 + |z_1|^{2m} < 0$. (Italian. English summary) **90i:32029**
Webster, Sidney On the local solution of the tangential Cauchy-Riemann equations. (French summary) **90h:32042a**
— On the proof of Kuranishi's embedding theorem. (French summary) **90h:32042b**

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Boas, Harold P. (*with* Chen, So-Chin; Straube, Emil J.) Exact regularity of the Bergman and Szegő projections on domains with partially transverse symmetries. **90a:32032**
— (*with* Straube, Emil J.) Equivalence of regularity for the Bergman projection and the $\overline{\partial}$-Neumann operator. **90k:32057**
Chen, So-Chin An a priori estimate on the boundary of small admissible domain. **90b:32038**
— *see also* **Boas, Harold P.; et al., 90a:32032**
Christ, Michael On the $\overline{\partial}_b$ equation and Szegő projection on CR manifolds. **90h:32044**
— Estimates for fundamental solutions of second-order subelliptic differential operators. **90a:35054**
Diaz, Ricardo L. Necessary conditions for local subellipticity of $\Box_b$ on CR manifolds. **90h:32045**
Fornæss, J. E. (*with* Sibony, Nessim) Construction of P.S.H. functions on weakly pseudoconvex domains. **90m:32034**
Grigis, Alain (*with* Rothschild, L. P.) L^2 estimates for the boundary Laplacian operator on hypersurfaces. **90j:35064**
Kang, Hyeonbae $\overline{\partial}_b$-equations on certain unbounded weakly pseudo-convex domains. **90a:35172**
Khenkin, G. M. (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002a**
— (*with* Leiterer, Jürgen) ★ Andreotti-Grauert theory by integral formulas. **90h:32002b**
Leiterer, Jürgen *see* **Khenkin, G. M., 90h:32002a** *and* **90h:32002b**
Li, Hui Ping Integral representation of the canonical solution of the $\overline{\partial}$-equation. (Chinese) **90m:32011**
Nacinovich, M. Tangential Cauchy-Riemann systems. **90d:58143**
Nagel, A. (*with* Rosay, J.-P.) Nonexistence of homotopy formula for $(0,1)$ forms on hypersurfaces in $\mathbf{C}^3$. **90m:32040**
Rosay, J.-P. *see* **Nagel, A., 90m:32040**
Rothschild, L. P. *see* **Grigis, Alain, 90j:35064**
Sibony, Nessim *see* **Fornæss, J. E., 90m:32034**
Straube, Emil J. *see* **Boas, Harold P.; et al., 90a:32032** *and* **90k:32057**
Tajima, Shinichi $\overline{\partial}_b$-cohomology and the Bochner-Martinelli kernel. **90b:32023**
Trèves, F. Microlocal cohomology in hypo-analytic structures. **90d:58144**
— Homotopy formulas in the tangential Cauchy-Riemann complex. **90m:32012**
Xu, Chuan-yi The existence of nonclassical asymptotic expansion of the trace of a heat kernel for a degenerate elliptic operator. **90k:58217**

32F25 Real submanifolds in complex manifolds

Baouendi, M. S. (*with* Trèves, F.) Unique continuation in CR manifolds and in hypo-analytic structures. **90b:32035**
— (*with* Rothschild, L. P.) Extension of holomorphic functions in generic wedges and their wave front sets. **90b:32036**
Barrett, D. E. (*with* Fornæss, J. E.) On the smoothness of Levi-foliations. **90b:32037**
Burns, Daniel M., Jr. (*with* Epstein, C. L.) Characteristic numbers of bounded domains. **90k:32063**
Chen, So-Chin An a priori estimate on the boundary of small admissible domain. **90b:32038**
Chen, Zhi Hua *see* **Han, Zu Hong, 90j:32021**
Christ, Michael On the $\overline{\partial}_b$ equation and Szegő projection on CR manifolds. **90h:32044**
— Embedding compact three-dimensional CR manifolds of finite type in $\mathbf{C}^n$. **90h:32043**
Diaz, Ricardo L. Necessary conditions for local subellipticity of $\Box_b$ on CR manifolds. **90h:32045**
Epstein, C. L. *see* **Burns, Daniel M., Jr., 90k:32063**
Ezhov, V. V. An example of a real-analytic hypersurface with a nonlinearizable stability group. **90e:32020**
Feldmueller, D. *see* **Lehmann, Ralf, 90b:32039**
Fornæss, J. E. *see* **Barrett, D. E., 90b:32037**
Han, Zu Hong (*with* Chen, Zhi Hua) On embeddings of abstract CR manifolds. (Chinese) **90j:32021**
Hanges, Nicholas (*with* Jacobowitz, Howard) A remark on almost complex structures with boundary. **90m:32038**
Harris, Gary A. Real k-flat surfaces in $\mathbf{C}^2$. **90i:32030**
Isaev, A. V. Reduction of the problem of classification of tube quadrics to the solution of a system of differential equations of a special form. **90m:32039**
Jacobowitz, Howard *see* **Hanges, Nicholas, 90m:32038**
Lehmann, Ralf (*with* Feldmueller, D.) Homogeneous CR-hypersurface-structures on spheres. **90b:32039**
Lewandowski, Jerzy On the Fefferman class of metrics associated with a three-dimensional CR space. **90f:32020**
Mizner, Robert I. CR structures of codimension 2. **90h:32046**
Nagel, A. (*with* Rosay, J.-P.) Nonexistence of homotopy formula for $(0,1)$ forms on hypersurfaces in $\mathbf{C}^3$. **90m:32040**
Rosay, J.-P. *see* **Nagel, A., 90m:32040**
Rothschild, L. P. *see* **Baouendi, M. S., 90b:32036**
Taiani, Geraldine ★ Cauchy-Riemann (CR) manifolds. **90h:32047**
Tomassini, Giuseppe Geometric properties of the solutions of the Levi equation. (Italian. English summary) **90i:32031**
— Geometric properties of solutions of the Levi-equation. (Italian summary) **90a:32023**
Trèves, F. *see* **Baouendi, M. S., 90b:32035**

Items with secondary classifications in 32F25

Aĭrapetyan, R. A. A generalization of the Kneser theorem on an embedded edge. (Russian) **90k:32049**
Akahori, Takao Complex analytic construction of the Kuranishi family on a normal strongly pseudoconvex manifold with real dimension 5. **90c:32032**
Baouendi, M. S. (*with* Rothschild, L. P.) CR mappings between real hypersurfaces in complex space. **90h:32056**
— (*with* Bell, S. R.; Rothschild, L. P.) Mappings of three-dimensional CR manifolds and their holomorphic extension. **90a:32035**
— (*with* Rothschild, L. P.) Germs of CR maps between real analytic hypersurfaces. **90a:32036**
Bell, S. R. *see* **Baouendi, M. S.; et al., 90a:32035**
Ehlers, F. (*with* Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. **90f:14001**
Forstnerič, Franc Polynomial hulls of sets fibered over the circle. **90g:32018**
Getzler, Ezra An analogue of Demailly's inequality for strictly pseudoconvex CR manifolds. **90d:58148**
Isaev, A. V. (*with* Mishchenko, M. A.) Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. **90b:32047**
Jerison, D. (*with* Lee, John M.) Intrinsic CR normal coordinates and the CR Yamabe problem. **90h:58083**
Ki, U-Hang Real hypersurfaces with parallel Ricci tensor of a complex space form. **90c:53135**
Lee, John M. *see* **Jerison, D., 90h:58083**
Li, Zhi Bin (*with* Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) **90k:58221**
Luo, Xue Bo *see* **Li, Zhi Bin, 90k:58221**
Mishchenko, M. A. *see* **Isaev, A. V., 90b:32047**
Rosay, J.-P. (*with* Stout, Edgar Lee) On pluriharmonic interpolation. **90k:32055**
Rothschild, L. P. *see* **Baouendi, M. S.; et al., 90a:32035; 90a:32036** *and* **90h:32056**
Scherk, J. *see* **Ehlers, F., 90f:14001**
Stanton, Nancy K. Spectral invariants of CR manifolds. **90k:58239**
Stout, Edgar Lee *see* **Rosay, J.-P., 90k:32055**
Tanno, Shukichi Variational problems on contact Riemannian manifolds. **90f:53071**
Trèves, F. Microlocal cohomology in hypo-analytic structures. **90d:58144**

32F30 Pseudoconvex manifolds

Graham, Carl On Sparling's characterization of Fefferman metrics. **90f:32021**
McNeal, Jeffery D. Holomorphic sectional curvature of some pseudoconvex domains. **90c:32030**
Pinchuk, S. I. (*with* Tsyganov, Sh. I.) Smoothness of CR-mappings of strictly pseudoconvex hypersurfaces. (Russian) **90j:32022**
Reimann, H. M. An estimate for pseudoconformal capacities on the sphere. **90m:32041**
Sasaki, Takeshi On the characteristic function of a strictly convex domain and the Fubini-Pick invariant. **90d:32034**
Tsyganov, Sh. I. *see* **Pinchuk, S. I., 90j:32022**

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Bland, John S. Bounded imbeddings of open Kähler manifolds in $\mathbf{C}^N$. **90j:53085**
Brummelhuis, R. G. M. (*with* de Paepe, P. J.) Derivations on algebras of holomorphic functions. **90h:32032**
de Paepe, P. J. *see* **Brummelhuis, R. G. M., 90h:32032**

32F99 None of the above, but in this section

Graham, Carl (*with* Lee, John M.) Smooth solutions of degenerate Laplacians on strictly pseudoconvex domains. **90c:32031**
Hachaichi, R. (*with* Ramadanov, Ivan Pierre) Une remarque sur la résolution d'une équation de type Monge-Ampère complexe. [A remark on the solution of a complex Monge-Ampère equation] **90e:32021**
Lee, John M. *see* **Graham, Carl, 90c:32031**
Patrizio, Giorgio Homogeneous polynomials and complex Monge-Ampère equations. (Italian summary) **90f:32022**
Ramadanov, Ivan Pierre *see* **Hachaichi, R., 90e:32021**

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Adachi, Kenzō Extending H^p functions from subvarieties to real ellipsoids. **90d:32008**
Amar, Éric Estimées Lipschitz dans les domaines convexes de type fini de $\mathbf{C}^2$. (English summary) [Lipschitz estimates in convex domains of finite type in $\mathbf{C}^2$] **90k:32009**
Delanoë, Ph. (*with* Hirschowitz, André) About the proofs of Calabi's conjectures on compact Kähler manifolds. **90g:32033**
Hirschowitz, André *see* **Delanoë, Ph., 90g:32033**
Isaev, A. V. Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. **90m:32042**
Kimura, Ikuo (*with* Ooishi, Yukinaga) On a family of holomorphy domains. **90h:32031**
Ohsawa, Takeo On the infinite dimensionality of the middle L^2 cohomology of complex domains. **90i:32016**
Ooishi, Yukinaga *see* **Kimura, Ikuo, 90h:32031**

32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16A58, 58H10, 58H15]

Alessandrini, L. (*with* Bassanelli, G.) Small deformations of a class of compact non-Kähler manifolds. **90k:32064**

Bassanelli, G. *see* **Alessandrini, L., 90k:32064**

El Kacimi-Alaoui, Aziz Stabilité des V-variétés kahlériennes. [Stability of Kählerian V-manifolds] **90d:32035**

Ferrer-Llop, Josep (*with* Puerta Sales, Fernando) Déformations $\mathbf{C}^*$-équivariantes de germes de faisceaux cohérents. [$\mathbf{C}^*$-equivariant deformations of germs of coherent sheaves] **90d:32036**

Miyajima, Kimio Kuranishi family of vector bundles and algebraic description of the moduli space of Einstein-Hermitian connections. **90k:32065**

Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. **90b:32040**

Puerta Sales, Fernando *see* **Ferrer-Llop, Josep, 90d:32036**

Siu, Yum Tong Nondeformability of the complex projective space. **90h:32048**

Vaĭntrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) **90h:32049**

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Babbitt, D. G. (*with* Varadarajan, V. S.) Local isoformal deformation theory for meromorphic differential equations near an irregular singularity. **90h:32051**

Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. **90e:32023**

Cartier, Pierre Jacobiennes généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] **90d:32024**

Cotta-Ramusino, P. (*with* Martellini, M.; Mintchev, M.) Deformations of complex structures and representations of Krichever-Novikov algebras. **90b:17035**

Dimiev, S. G. (*with* Petrov, Kalin) Examples of deformations of almost Hermitian structures. **90b:58285**

Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. **90d:53083**

Hazewinkel, Michiel The philosophy of deformations: introductory remarks and a guide to this volume. **90c:58198**

Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. **90m:14015**

Martellini, M. *see* **Cotta-Ramusino, P.; et al., 90b:17035**

Mintchev, M. *see* **Cotta-Ramusino, P.; et al., 90b:17035**

Oka, Mutsuo[1] On the deformation of certain type of algebraic varieties. **90e:14051**

Petrov, Kalin *see* **Dimiev, S. G., 90b:58285**

Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. **90e:32035**

Varadarajan, V. S. *see* **Babbitt, D. G., 90h:32051**

Wolpert, Scott A. Cut-and-paste deformations of Riemann surfaces. **90e:32026**

32G07 Deformations of special (e.g. CR) structures

Akahori, Takao Complex analytic construction of the Kuranishi family on a normal strongly pseudoconvex manifold with real dimension 5. **90c:32032**

Girbau, Joan On deformations of holomorphic and transversely holomorphic foliations. **90g:32022**

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Akahori, Takao A remark on the local embedding theorem of CR-structures with higher codimension. **90e:32019**

Fox, Thomas F. Algebraic deformations and bicohomology. **90h:18007**

Hill, C. Denson What is the notion of a complex manifold with a smooth boundary? **90e:32009**

Ohyama, Yousuke *see* **Ueno, Kenji, (90j:81004)**

Peternell, Thomas Singular surfaces and the rigidity of $\mathbf{P}_3$. **90a:14008**

Suwa, Tatsuo A factorization theorem for unfoldings of analytic functions. **90b:58288**

Ueno, Kenji (*with* Ohyama, Yousuke) Conformal field theory on Riemann surfaces. (Japanese) (*see* **90j:81004**)

32G10 Deformations of submanifolds and subspaces

Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] **90e:32022**

Goldman, William M. (*with* Millson, John J.) The deformation theory of representations of fundamental groups of compact Kähler manifolds. **90b:32041**

Gómez-Mont, Xavier (*with* Sundararaman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. **90k:32066**

Gravesen, Jens On the topology of spaces of holomorphic maps. **90g:32023**

Greuel, Gert-Martin (*with* Karras, Ulrich) Families of varieties with prescribed singularities. **90d:32037**

Karras, Ulrich *see* **Greuel, Gert-Martin, 90d:32037**

Millson, John J. *see* **Goldman, William M., 90b:32041**

Sundararaman, Duraiswami *see* **Gómez-Mont, Xavier, 90k:32066**

Items with secondary classifications in 32G10

Arnol'd, V. I. The branched covering $\mathbf{C}\mathrm{P}^2 \to S^4$, hyperbolicity and projective topology. **90a:57037**

Barlet, Daniel (*with* Peternell, Thomas; Schneider, Michael Hellmut) On two conjectures of Hartshorne's. **90m:14006**

Friedman, Robert David (*with* Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. **90f:57039**

van der Geer, Gerard On rank-1 degenerations of abelian varieties. **90k:14025**

Kawai, Sōichi On the local invariant 1-cocycle theorem. **90e:32014**

Morgan, John W. *see* **Friedman, Robert David, 90f:57039**

Peternell, Thomas Singular surfaces and the rigidity of $\mathbf{P}_3$. **90a:14008**

— *see also* **Barlet, Daniel; et al., 90m:14006**

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Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. **90g:32025**

32G11 Deformations of singularities

Brieskorn, E. Automorphic sets and braids and singularities. **90a:32024**

Laufer, Henry B. Tangent cones for deformations of two-dimensional quasi-homogeneous singularities. **90g:32024**

Seeley, Craig (*with* Yau, Stephen S.-T.) Variation of complex structures and variation of Lie algebras. **90k:32067**

Yau, Stephen S.-T. *see* **Seeley, Craig, 90k:32067**

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Aleksandrov, A. G. Nonisolated Saito singularities. **90b:32024**

Cano, Felipe Réduction des singularitiés des feuilletages holomorphes. (English summary) [Reduction of the singularities of holomorphic foliations] **90g:32015**

Damon, James Topological equivalence for nonisolated singularities and global affine hypersurfaces. **90j:58009**

— Topological invariants of μ-constant deformations of complete intersection singularities. **90j:32012**

Ehlers, F. (*with* Scherk, J.) On the highest weight deformation of a quasihomogeneous surface singularity. **90f:14001**

Fiedler, Thomas Complex plane curves in the ball. **90g:32013**

Hauser, H. (*with* Randell, R.) Report on the problem session. **90c:32017**

Oka, Mutsuo[1] On the weak simultaneous resolution of a negligible truncation of the Newton boundary. **90h:32030**

Orlik, Peter Stratification of the discriminant in reflection groups. **90d:32026**

O'Shea, Donal B. Spaces of limiting tangent spaces. **90h:32020**

Paul, Emmanuel Étude topologique des formes logarithmiques fermées. [Topological study of closed logarithmic forms] **90f:32023**

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Shubladze, M. Sh. Flat isolated singularities of analytic functions of three complex variables. (Russian. English and Georgian summaries) **90b:32022**

Siu, Yum Tong Nondeformability of the complex projective space. **90h:32048**

32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20.}

Campana, F. Geometric algebraicity of moduli spaces of compact Kähler symplectic manifolds. **90e:32023**

Doi, Hideo (*with* Okai, Takayuki) Moduli space of 1-instantons on a quaternionic projective space HP^n. **90k:32068**

Kosarew, Siegmund (*with* Okonek, Christian) Global moduli spaces and simple holomorphic bundles. **90k:32069**

Murray, M. K. Stratifying monopoles and rational maps. **90i:32032**

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Saito, Kyoji Moduli space for Fuchsian groups. **90d:32038**

Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. **90g:32025**

— (*with* Ôkawa, Masaki) Some results on the local moduli of nonsingular normalizations of surfaces with ordinary singularities. **90f:32024**

Yoshida, Masaaki ★ Fuchsian differential equations. **90f:32025**

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Baulieu, Laurent (*with* Bellon, M.; Grimm, Richard) Factorization of the BRST algebra on superconformal structures. **90i:81101**

Bellon, M. *see* **Baulieu, Laurent; et al., 90i:81101**

Bhosle, Usha (*with* Ramanathan, Annamalai) Moduli of parabolic G-bundles on curves. **90h:14018**

Bonora, L. (*with* Matone, Marco; Toppan, Francesco; Wu, Ke) b-c system approach to minimal models. The genus-zero case. **90e:81169**

Braam, Peter J. (*with* Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. **90i:32039**

Candelas, P. (*with* Green, Paul S.; Hübsch, Tristan) Finite distance between distinct Calabi-Yau manifolds. **90b:53052**

Catanese, F. Everywhere nonreduced moduli spaces. **90j:14013**

Cerveau, Dominique (*with* Moussu, R.) Groupes d'automorphismes de $(\mathbf{C},0)$ et équations différentielles $ydy+\cdots=0$. (English summary) [Groups of automorphisms of $(\mathbf{C},0)$ and differential equations of the form $ydy+\cdots=0$] **90m:58192**

David, François Louis Sur l'entropie des surfaces aléatoires. (English summary) [On the entropy of random surfaces] **90e:81125**

Distler, Jacques (*with* Greene, B. R.; Kirklin, Kelley; Miron, Paul) Calculating endomorphism valued cohomology: singlet spectrum in superstring models. **90b:14061**

Friedan, D. The integrable analytic geometry of string theory and two-dimensional conformal field theory. (*see* **90h:00021**)

Goldman, William M. Geometric structures on manifolds and varieties of representations. **90i:57024**

Gómez-Mont, Xavier (*with* Kempf, George R.) Stability of meromorphic vector fields in projective spaces. **90d:14012**

Green, Paul S. (*with* Hübsch, Tristan) Connecting moduli spaces of Calabi-Yau threefolds. **90a:14050**

— (*with* Hübsch, Tristan) Possible phase transitions among Calabi-Yau compactifications. **90c:53180**
— *see also* **Candelas, P.; et al., 90b:53052**
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Hattori, Akio Corrections to: "Topology of the moduli space of SU(2)-instantons with instanton number 2" [J. Fac. Sci. Univ. Tokyo Sect. IA Math. 34 (1987), no. 3, 741–761; MR 89m:53134]. **90h:53094**
Huang, Chao Shang (*with* Zhao, Zhi Yong) Krichever-Novikov algebras and string theories on group manifolds. **90e:81194**
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Martin, Bernd (*with* Pfister, Gerhard) Singularities of moduli spaces. **90m:14004**
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Miyajima, Kimio Kuranishi family of vector bundles and algebraic description of the moduli space of Einstein-Hermitian connections. **90k:32065**
Montano, David (*with* Sonnenschein, Jacob) The topology of moduli space and quantum field theory. **90k:81228**
Morrison, David R. On the moduli of Todorov surfaces. **90a:14051**
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— (*with* Van de Ven, A.) Γ-type-invariants associated to PU(2)-bundles and the differentiable structure of Barlow's surface. **90a:57048**
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Ramadas, T. R. (*with* Singer, I. M.; Weitsman, J.) Some comments on Chern-Simons gauge theory. **90m:58218**
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Ramis, J.-P. (*with* Sibuya, Y.) Hukuhara domains and fundamental existence and uniqueness theorems for asymptotic solutions of Gevrey type. **90k:58209**
Saito, Masa-Hiko Generic Torelli theorem for hypersurfaces in compact irreducible Hermitian symmetric spaces. **90d:32041**
Shafi, Q. *see* **Lazarides, G., 90c:14031**
Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. **90e:58035**
Shvarts, A. S. Fermionic string and universal moduli space. **90d:58063**
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32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

Baranov, M. A. (*with* Frolov, I. V.; Shvarts, A. S.) The geometry of the superconformal moduli space. **90i:32033**
Bonahon, F. The geometry of Teichmüller space via geodesic currents. **90a:32025**
Brumfiel, G. W. The real spectrum compactification of Teichmüller space. **90b:32042**
Earle, Clifford J. Teichmüller spaces. **90b:32043**
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Gravesen, Jens Complex structures in the Nash-Moser category. **90k:32070**
Harer, John L. The cohomology of the moduli space of curves. **90a:32026**
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Kra, Irwin Nonvariational global coordinates for Teichmüller spaces. **90b:32044**
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Krushkal′, S. L. On the structure of the universal Teichmüller space. **90d:32039**
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Myung, Y. S. $N = 2$ twisted supermodular transformation on a supertorus. **90a:32028**
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Okumura, Yoshihide On the global real analytic coordinates for Teichmüller spaces. **90k:32071**
Pekonen, Osmo A short proof of a theorem of Ahlfors. **90b:32046**
Penner, R. C. Calculus on moduli space. **90a:32029**
Sasaki, Takeshi (*with* Yoshida, Masaaki) Linear differential equations modeled after hyperquadrics. **90h:32050**
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— (*with* Sorvali, Tuomas) Affine coordinates for Teichmüller spaces. **90e:32024**
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Uehara, S. (*with* Yasui, Yukinori) Super Beltrami differentials via 2D supergravity. **90e:32025**
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Zograf, P. G. On the potential of the Weil-Petersson metric on the Teichmüller space of punctured Riemann surfaces of genus 0. **90d:32040**
Zucchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. **90g:32027**

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Alvarez Gaumé, Luis (*with* Gómez, César; Reina, C.) New methods in string theory. **90j:81163a**
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Arbarello, Enrico Riemann surfaces, theta functions and representations. (Italian) **90e:14025**
Awada, M. A. The cosmological constant of modular closed string field theory. I. **90g:81208**
Bagger, Jonathan Strings and Riemann surfaces. **90k:81179**
Baldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**
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Beilinson, A. A. (*with* Shekhtman, V. V.) Determinant bundles and Virasoro algebras. **90m:32048**
Bernard, Denis Z_2-twisted fields and bosonization on Riemann surfaces. **90d:81105**
Bershadskii, M. A. Super-Riemann surfaces, loop measure, etc. **90b:58029**
Birman, Joan S. Mapping class groups of surfaces. **90g:57013**
Blok, B. Yu. (*with* Yankielowicz, Shimon) Riemann monodromy problem and conformal field theories. **90g:81212**
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— (*with* Martellini, M.; Rinaldi, M.; Russo, Jorge) Neveu-Schwarz- and Ramond-type superalgebras on genus-g Riemann surfaces. **90d:81106**
— (*with* Martellini, M.; Rinaldi, M.; Wu, Ke) Conformal invariance on a generic Riemann surface in the presence of a nonflat background metric. **90g:81174**
Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur le espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] **90d:58142**
Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. **90k:14019**
Bujalance, E. (*with* Martínez, Ernesto) A remark on NEC groups representing surfaces with boundary. **90a:20094**
Carow-Watamura, U. (*with* Ezawa, Z. F.; Harada, Kuni; Tezuka, Akinori; Watamura, S.) Chiral bosonization of superconformal ghosts on the Riemann surface and path-integral measure. **90d:81107**
Chang, Darwin (*with* Kumar, Alok^2) Some special points in the moduli space of $c = N$ conformal field theory. **90k:81192**
Charney, R. M. (*with* Cohen, Frederick R.) A stable splitting for the mapping class group. **90a:55021**
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Tishabaev, Dzh. K. Invariant metrics and indicatrices of bounded domains in $\mathbf{C}^n$. **90h:32053**
Venturini, Sergio Comparison between the Kobayashi and Carathéodory distances on strongly pseudoconvex bounded domains in $\mathbf{C}^n$. **90b:32049**
Vesentini, Edoardo Holomorphic semigroups of holomorphic isometries. (Italian summary) **90k:32077**

Items with secondary classifications in 32H15

Chinak, M. A. A weak hyperbolic measure and regular mappings of affine manifolds. (Russian) **90j:32030**
Hervé, Michel ★ Analyticity in infinite-dimensional spaces. **90f:46074**
Kuczumow, T. (*with* Ray, William O.) Isometries in the Cartesian product of n unit open Hilbert balls with a hyperbolic metric. **90c:47104**
Nagel, A. (*with* Rosay, J.-P.; Stein, E. M.; Wainger, S.) Estimates for the Bergman and Szegő kernels in $\mathbf{C}^2$. **90g:32028**

Nasyrov, S. R. A topological space, connected with convergence to a kernel, of Riemann surfaces over a sphere. (Russian. English summary) **90a:30126**
Pflug, P. Functions of restricted growth and invariant distances in complex analysis. **90i:32021**
Podestà, Fabio Projective hyperbolicity. **90h:53032**
Ray, William O. *see* **Kuczumow, T., 90c:47104**
Rosay, J.-P. *see* **Nagel, A.; et al., 90g:32028**
Royden, H. L. Hyperbolicity in complex analysis. **90h:32054**
Stein, E. M. *see* **Nagel, A.; et al., 90g:32028**
Wainger, S. *see* **Nagel, A.; et al., 90g:32028**
Yin, Wei Ping New phenomena on bounded nonhomogeneous domains. **90f:32003**
Zhang, Jin Hao Chern-Levin [Levine]-Nirenberg norm on homology class. **90d:32018**

32H20 Hyperbolic complex manifolds

Cheung, Chi-Keung Hermitian metrics of negative holomorphic sectional curvature on some hyperbolic manifolds. **90d:32043**
Dolbeault, Pierre (*with* Lawrynowicz, Julian) Holomorphic chains and extendability of holomorphic mappings. **90f:32027**
Grant, Caroline Galt Hyperbolicity of surfaces modulo rational and elliptic curves. **90k:32078**
Grauert, Hans Jetmetriken und hyperbolische Geometrie. [Jet metrics and hyperbolic geometry] **90c:32037**
Kim, Kang Tae Complete localization of domains with noncompact automorphism groups. **90i:32035**
Ławrynowicz, Julian *see* **Dolbeault, Pierre, 90f:32027**
Royden, H. L. Hyperbolicity in complex analysis. **90h:32054**
Vesentini, Edoardo Injective hyperbolicity. **90a:32034**

Items with secondary classifications in 32H20

Bland, John S. Bounded imbeddings of open Kähler manifolds in $\mathbf{C}^N$. **90j:53085**
Langmann, Klaus Picard-Borel-Räume. [Picard-Borel spaces] **90e:32030**
Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. **90b:32040**
Reich, Simeon Fixed point theory in Hilbert ball. **90f:47087**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Langmann, Klaus Analytische Mengen, die von jedem nichtkonstanten Bild getroffen werden. [Analytic sets which are met by every nonconstant image] **90h:32055**
— Holomorphe Abbildungen zwischen quasiprojektiven Räumen. [Holomorphic mappings between quasiprojective spaces] **90d:32044**
— Picard-Borel-Räume. [Picard-Borel spaces] **90e:32030**

Items with secondary classifications in 32H25

Chen, Wan Xi Defect relations for degenerate meromorphic maps. **90k:32079**
Cowen, Michael J. The method of negative curvature: the Kobayashi metric on $\mathbf{P}_2$ minus 4 lines. **90j:32025**
Furushima, Mikio Normal affine surfaces properly dominated by $\mathbf{C}\times\mathbf{C}^*$. **90k:14011**
Grant, Caroline Galt Hyperbolicity of surfaces modulo rational and elliptic curves. **90k:32078**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Chen, Wan Xi Defect relations for degenerate meromorphic maps. **90k:32079**
Ji, Shanyu Uniqueness problem without multiplicities in value distribution theory. **90b:32050**
Lang, Serge The error term in Nevanlinna theory. II. **90k:32080**
Savchuk, Ya. I. Valiron deficient vectors of entire curves of finite order. (Russian) **90k:32081**
Siu, Yum Tong Nonequidimensional value distribution theory. **90j:32028**

Items with secondary classifications in 32H30

Fujimoto, Hirotaka On the value distribution of the Gauss map of minimal surfaces in $\mathbf{R}^n$. (Japanese) **90f:53098**
Langmann, Klaus Analytische Mengen, die von jedem nichtkonstanten Bild getroffen werden. [Analytic sets which are met by every nonconstant image] **90h:32055**
Nadel, Alan Michael The nonexistence of certain level structures on abelian varieties over complex function fields. **90e:14044**
Ortaçgil, Ercüment A relation between radial indicators and order functions. (Turkish summary) **90k:32008**
Zaĭdenberg, M. G. Transcendental solutions of Diophantine equations. **90e:11112**

32H35 Proper mappings, finiteness theorems

Baouendi, M. S. (*with* Rothschild, L. P.) CR mappings between real hypersurfaces in complex space. **90h:32056**
— (*with* Bell, S. R.; Rothschild, L. P.) Mappings of three-dimensional CR manifolds and their holomorphic extension. **90a:32035**
— (*with* Rothschild, L. P.) Germs of CR maps between real analytic hypersurfaces. **90a:32036**
Bell, S. R. *see* **Baouendi, M. S.; et al., 90a:32035**
Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Proper holomorphic maps between Reinhardt domains and strictly pseudoconvex domains. **90i:32036**
Faran, James J., V A reflection principle for proper holomorphic mappings and geometric invariants. **90k:32082**
Globevnik, J. Relative embeddings of discs into convex domains. **90j:32029**
Meschiari, Mauro Proper holomorphic maps on an irreducible bounded symmetric domain of classical type. **90g:32030**
Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 90i:32036**
Rothschild, L. P. *see* **Baouendi, M. S.; et al., 90a:32035; 90a:32036** *and* **90h:32056**

Items with secondary classifications in 32H35

Barlet, Daniel (*with* Varouchas, J.) Fonctions holomorphes sur l'espace des cycles. (English summary) [Holomorphic functions on the space of cycles] **90m:32023**
Bedford, E. (*with* Pinchuk, S. I.) Analytic continuation of biholomorphic maps. **90b:32026**
Kosarew, Siegmund A note on the local homotopy type of direct image sheaf complexes. **90g:32011**
Langmann, Klaus Holomorphe Abbildungen zwischen quasiprojektiven Räumen. [Holomorphic mappings between quasiprojective spaces] **90d:32044**
Parrini, Carla Hölder estimates for $\bar{\partial}$ in some finite preimages of strictly pseudoconvex domains. (French summary) **90e:32018**
Pinchuk, S. I. *see* **Bedford, E., 90b:32026**
Salinas, Norberto (*with* Sheu, Albert Jeu-Liang; Upmeier, Harald) Toeplitz C^*-algebras over pseudoconvex Reinhardt domains. **90f:47036**
Sheu, Albert Jeu-Liang *see* **Salinas, Norberto; et al., 90f:47036**
Upmeier, Harald *see* **Salinas, Norberto; et al., 90f:47036**
Varouchas, J. *see* **Barlet, Daniel, 90m:32023**
Zhou, Xiang Yu Embedding strictly pseudoconvex domains into balls. (Chinese) **90i:32022**

32H99 None of the above, but in this section

Berenstein, Carlos A. (*with* Yger, Alain) Analytic Bezout identities. **90b:32051**
Chinak, M. A. A weak hyperbolic measure and regular mappings of affine manifolds. (Russian) **90j:32030**
Frankel, Sidney Complex geometry of convex domains that cover varieties. **90i:32037**
Kizuka, Takashi (*with* Matsumoto, Mitsuo) On meromorphic mappings of Poincaré type of two complex variables. **90j:32031**
Kubicka, Ewa (*with* Poreda, Tadeusz) On the parametric representation of starlike maps of the unit ball in $\mathbf{C}^n$ into $\mathbf{C}^n$. **90g:32031**
Matsumoto, Mitsuo *see* **Kizuka, Takashi, 90j:32031**
Poreda, Tadeusz *see* **Kubicka, Ewa, 90g:32031**
Yger, Alain *see* **Berenstein, Carlos A., 90b:32051**

Items with secondary classifications in 32H99

Abe, Kinetsu (*with* Magid, M. A.) Complex analytic curves and maximal surfaces. **90j:53006**
Dethloff, Gerd-E. On essential singularities of meromorphic mappings. **90a:32020**
Dillen, Franki (*with* Vrancken, Luc) Complex affine hypersurfaces of $\mathbf{C}^{n+1}$. I. **90i:53010**
Erkama, Timo Rational Riemann maps. **90i:30074**
(Favorov, S. Yu.) *see* **Lelong, Pierre, 90i:32002**
Gruman, L. *see* **Lelong, Pierre, 90i:32002**
Kuczumow, T. Fixed points of holomorphic mappings in the Hilbert ball. **90f:47088**
Lelong, Pierre (*with* Gruman, L.) ★ Целые функции многих комплексных переменных. (Russian) [Entire functions of several complex variables] **90i:32002**
Magid, M. A. *see* **Abe, Kinetsu, 90j:53006**
Mok, Ngaiming Strong rigidity of irreducible quotients of polydiscs of finite volume. **90b:32040**
Patrizio, Giorgio Homogeneous polynomials and complex Monge-Ampère equations. (Italian summary) **90f:32022**
Pinchuk, S. I. (*with* Tsyganov, Sh. I.) Smoothness of CR-mappings of strictly pseudoconvex hypersurfaces. (Russian) **90j:32022**
Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrigen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] **90f:13013**
Reich, Simeon Fixed point theory in Hilbert ball. **90f:47087**
(Ronkin, L. I.) *see* **Lelong, Pierre, 90i:32002**
(Russakovskiĭ, A. M.) *see* **Lelong, Pierre, 90i:32002**
Sakurai, Kouichi (*with* Yoshida, Masaaki) Fuchsian systems associated with the $\mathrm{P}^2(\mathbf{F}_2)$-arrangement. **90j:32015**
Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. **90e:58035**
Shiffman, Bernard Degree bounds for the division problem in polynomial ideals. **90h:13009**
Tsyganov, Sh. I. *see* **Pinchuk, S. I., 90j:32022**
Vesentini, Edoardo Holomorphic semigroups of holomorphic isometries. (Italian summary) **90k:32077**
Vrancken, Luc *see* **Dillen, Franki, 90i:53010**
Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^*-algebras and complex Hilbert spaces. **90e:46066**
Yoshida, Masaaki *see* **Sakurai, Kouichi, 90j:32015**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx.}

32J05 Compactification

Mok, Ngaiming (*with* Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. **90d:32045**
— Compactification of complete Kähler surfaces of finite volume satisfying certain curvature conditions. **90f:32028**
Ogata, Shoetsu Non-Kähler manifolds and ball-product cusp singularities. **90i:32038**
Peternell, Thomas Compactifications of $\mathbf{C}^3$. II. **90b:32052**

Yeung, Sai-Kee Compactification of complete Kähler surfaces with negative Ricci curvature. **90k:32083**
Zhong, Jia Qing *see* **Mok, Ngaiming, 90d:32045**

Items with secondary classifications in 32J05

Caldi, D. G. Aspects of string theory. **90c:81160**
Gepner, Doron The exact structure of Calabi-Yau compactification. **90k:83089**
Green, Paul S. (*with* Hübsch, Tristan) Possible phase transitions among Calabi-Yau compactifications. **90c:53180**
Harvey, Jeffrey A. Lectures on heterotic string and orbifold compactifications. (*see* **90h:81004**)
Hatada, Kazuyuki Correspondences for Hecke rings and l-adic cohomology groups on smooth compactifications of Siegel modular varieties. **90j:11036**
Hübsch, Tristan Manifold compactification of superstrings. **90m:81109**
— *see also* **Green, Paul S., 90c:53180**
Kalara, Sunil (*with* Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N = 2$ superconformal models. **90k:14040**
Lazarides, G. (*with* Shafi, Q.) More on the classification of three generation superstring models. **90k:81219**
Lykken, Joseph *see* **Kalara, Sunil, 90k:14040**
Lynker, Monika (*with* Schimmrigk, R.) On the spectrum of (2, 2) compactification of the heterotic string on conformal field theories. **90c:81200**
Markushevich, D. G. (*with* Ol′shanetskiĭ, M. A.; Perelomov, A. M.) Ricci-flat compactifications in the theory of superstrings, and Coxeter automorphisms. I. **90m:83095**
— (*with* Ol′shanetskiĭ, M. A.; Perelomov, A. M.) Ricci-flat compactifications in the theory of superstrings, and Coxeter automorphisms. II. **90m:83096**
Mok, Ngaiming Compactification of complete Kähler-Einstein manifolds of finite volume. **90j:53065**
Narain, K. S. Toroidal and orbifold compactification of heterotic string. **90i:81140**
van Nieuwenhuizen, P. *see* **Pope, C. N., 90d:53057**
Oda, Takayuki (*with* Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. **90m:11072**
Ol′shanetskiĭ, M. A. *see* **Markushevich, D. G.; et al., 90m:83095** *and* **90m:83096**
Perelomov, A. M. *see* **Markushevich, D. G.; et al., 90m:83095** *and* **90m:83096**
Pope, C. N. (*with* van Nieuwenhuizen, P.) Compactifications of $d = 11$ supergravity on Kähler manifolds. **90d:53057**
Schimmrigk, R. *see* **Lynker, Monika, 90c:81200**
Schwermer, Joachim *see* **Oda, Takayuki, 90m:11072**
Shafi, Q. *see* **Lazarides, G., 90k:81219**

32J10 Algebraic dependence theorems

Items with secondary classifications in 32J10

Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] **90e:32022**

32J15 Compact surfaces

Mukai, Shigeru Finite groups of automorphisms of $K3$ surfaces and the Mathieu group. **90b:32053**
Nishiguchi, Kenji Canonical bundles of analytic surfaces of class VII_0. **90g:32032**
Toma, Matei A class of nonalgebraic threefolds. (French summary) **90k:32084**
Yokura, Shoji On a generalization of MacPherson's Chern homology class. **90m:32044**
Yüan, Hsi Shih On the generalization of Kummer surfaces. **90j:32032**

Items with secondary classifications in 32J15

Candelas, P. Lectures on complex manifolds. **90i:32001**
— (*with* Lütken, C. A.; Schimmrigk, R.) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds [Nuclear Phys. B **306** (1988), no. 1, 113–136; MR 89g:53102]. (*see* **90g:83004**)
Guan, Zhuang Dan *see* **Hong, Yi; et al., 90c:53171**
Hong, Yi (*with* Guan, Zhuang Dan; Yang, Hong Cang) A remark on Kähler-Einstein manifolds. (Chinese) **90c:53171**
Hulek, K. (*with* Weintraub, Steven H.) Bielliptic abelian surfaces. **90b:14052**
Kato, Tomohisa On the intersection homology group of an analytic space of dimension 2. **90e:32013**
Kawazumi, Nariya Folding surface bundles of genus 2. **90f:57031**
Kogan, Ya. I. (*with* Markushevich, D. G.; Morozov, A. Yu.; Ol′shanetskiĭ, M. A.; Perelomov, A. M.; Roslyĭ, A. A.) Some examples of instantons in sigma models. $K3$ manifolds. **90j:14043**
Kotschick, Dieter On manifolds homeomorphic to $\mathrm{CP}^2\#8\overline{\mathrm{CP}}^2$. **90a:57047**
Kuleshov, S. A. A theorem on the existence of exceptional bundles on surfaces of type $K3$. **90d:14018**
Lindström, U. (*with* Roček, M.) New hyper-Kähler metrics and new supermultiplets. **90b:53056**
Lütken, C. A. A large class of Calabi-Yau vacua. **90m:14049**
— *see also* **Candelas, P.; et al., (90g:83004)**
Markushevich, D. G. *see* **Kogan, Ya. I.; et al., 90j:14043**
Moriwaki, Atsushi Semi-ampleness of the numerically effective part of Zariski decomposition. II. **90b:14040**
Morozov, A. Yu. *see* **Kogan, Ya. I.; et al., 90j:14043**
Mukai, Shigeru Curves, $K3$ surfaces and Fano 3-folds of genus ≤ 10. **90b:14039**
Nakamura, Iku Threefolds homeomorphic to a hyperquadric in $\mathbf{P}^4$. **90m:32045**
Naruki, Isao $K3$ surfaces related to root systems in E_8. **90d:14040**
Neeman, Amnon Ueda theory: theorems and problems. **90d:32030**
Ôkawa, Masaki *see* **Tsuboi, Syoji, 90f:32024**
Okonek, Christian Fake Enriques surfaces. **90e:57062**
— (*with* Van de Ven, A.) Γ-type-invariants associated to PU(2)-bundles and the differentiable structure of Barlow's surface. **90a:57048**
Ol′shanetskiĭ, M. A. *see* **Kogan, Ya. I.; et al., 90j:14043**
Pardon, William The L_2-$\bar{\partial}$-cohomology of an algebraic surface. **90i:32014**
Perelomov, A. M. *see* **Kogan, Ya. I.; et al., 90j:14043**
Roček, M. *see* **Lindström, U., 90b:53056**
Roslyĭ, A. A. *see* **Kogan, Ya. I.; et al., 90j:14043**
Saito, Kyoji Algebraic surfaces for regular systems of weights. **90a:14054**
Schimmrigk, R. *see* **Candelas, P.; et al., (90g:83004)**
Tsai, I-Hsun Negatively curved metrics on Kodaira surfaces. **90h:32058**
Tsuboi, Syoji A theorem on the existence of a maximal analytic family of surfaces with ordinary singularities in the projective 3-space. **90g:32025**
— (*with* Ôkawa, Masaki) Some results on the local moduli of nonsingular normalizations of surfaces with ordinary singularities. **90f:32024**
Van de Ven, A. *see* **Okonek, Christian, 90a:57048**
Vila Freyer, Ricardo Francisco Automorphisms of complex compact surfaces. (Spanish) **90c:32044**
Weintraub, Steven H. *see* **Hulek, K., 90b:14052**
Wolfson, J. G. Minimal surfaces in Kähler surfaces and Ricci curvature. **90d:53073**
Yang, Hong Cang *see* **Hong, Yi; et al., 90c:53171**

32J20 Algebraicity criteria

Nakamura, Iku Threefolds homeomorphic to a hyperquadric in $\mathbf{P}^4$. **90m:32045**
Poon, Y. Sun Algebraic dimension of twistor spaces. **90f:32029**
Tung, Chia Chi On the projective embeddability of compact complex manifolds. **90b:32054**

Items with secondary classifications in 32J20

Mok, Ngaiming (*with* Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. **90d:32045**
Peternell, Thomas Singular surfaces and the rigidity of $\mathbf{P}_3$. **90a:14008**
Zhong, Jia Qing *see* **Mok, Ngaiming, 90d:32045**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Ohsawa, Takeo An extension of Hodge theory to Kähler spaces with isolated singularities of restricted type. **90m:32046**

Items with secondary classifications in 32J25

Bozhkov, Yuri Dimitrov A construction of almost anti-self-dual connections on Kummer surfaces. **90c:53116**
Carlson, James A. (*with* Kasparian, Azniv; Toledo, Domingo) Variations of Hodge structure of maximal dimension. **90h:14015**
Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. **90a:32039**
Gieres, F. BRS invariant gauge fixing of local and global zero modes in superstring theory. **90e:81190**
Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. **90m:57030**
Hoffman, Jerome William On Kollár's vanishing theorems. I. **90k:14005**
Kasparian, Azniv *see* **Carlson, James A.; et al., 90h:14015**
Kollár, János Flops. **90e:14011**
Konno, Kazuhiro Generic Torelli theorem for hypersurfaces of certain compact homogeneous Kähler manifolds. **90k:32072**
Lescure, F. Sur les compactifications équivariantes des groupes commutatifs. (English summary) [Equivariant compactifications of commutative groups] **90f:32032**
Moishezon, B. (*with* Teicher, M.) Braid group technique in complex geometry. I. Line arrangements in CP^2. **90f:32014**
Nakayama, Noboru On Weierstrass models. **90m:14030**
Teicher, M. *see* **Moishezon, B., 90f:32014**
Toledo, Domingo *see* **Carlson, James A.; et al., 90h:14015**
Wilson, P. M. H. Calabi-Yau manifolds with large Picard number. **90h:14044**

32J99 None of the above, but in this section

Delanoë, Ph. (*with* Hirschowitz, André) About the proofs of Calabi's conjectures on compact Kähler manifolds. **90g:32033**
Fujimoto, Yoshio Pluricanonical divisors of elliptic fiber spaces. **90a:32037**
Hirschowitz, André *see* **Delanoë, Ph., 90g:32033**

Items with secondary classifications in 32J99

Balog, J. (*with* Tuite, Michael P.) The failure of Atkin-Lehner symmetry for lattice compactified strings. **90k:81181**
Blok, B. Yu. A nonrenormalization theorem for a superpotential on $K3$ surfaces. **90a:81084**
Clemens, Herbert (*with* Kollár, János; Mori, Shigefumi) Higher-dimensional complex geometry. (French summary) **90j:14046**
Friedman, Robert David (*with* Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. **90f:57039**
Futaki, Akito ★ Kähler-Einstein metrics and integral invariants. **90a:53053**
Green, Paul S. (*with* Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi-Yau complete intersections. **90h:14067**
Gurjar, R. V. Coverings of algebraic varieties. **90e:14012**
Hübsch, Tristan *see* **Green, Paul S.; et al., 90h:14067**
Kalara, Sunil (*with* Lykken, Joseph) New Calabi-Yau manifolds from weighted hypersurfaces and nonminimal $N = 2$ superconformal models. **90k:14040**
Kim, Jae Kwan (*with* Park, Chung Joo; Yoon, Yongsung) Calabi-Yau manifolds from $N = 2$ Landau-Ginzburg superconformal theories. **90j:14049**
Kobayashi, Ryoichi (*with* Nakamura, Shu^2; Sakai, Fumio) A numerical characterization of ball quotients for normal surfaces with branch loci. **90k:32034**
Kollár, János *see* **Clemens, Herbert; et al., 90j:14046**

Lazarides, G. (*with* Shafi, Q.) Three generation superstring models with maximal discrete symmetries. **90c:14031**
Lütken, C. A. *see* **Green, Paul S.; et al., 90h:14067**
Lykken, Joseph *see* **Kalara, Sunil, 90k:14040**
Meeks, William H., III Regularity of the Albanese map for nonorientable surfaces. **90f:14028**
Morgan, John W. *see* **Friedman, Robert David, 90f:57039**
Mori, Shigefumi *see* **Clemens, Herbert; et al., 90j:14046**
Nakamura, Shu^2 *see* **Kobayashi, Ryoichi; et al., 90k:32034**
Park, Chung Joo *see* **Kim, Jae Kwan; et al., 90j:14049**
Rusjan, E. (*with* Senjanović, G.; Šokorac, A.) Calabi-Yau manifold of four generations. **90h:14070**
Sakai, Fumio *see* **Kobayashi, Ryoichi; et al., 90k:32034**
Sankaran, G. K. A class of non-Kähler complex manifolds. **90f:32011**
Senjanović, G. *see* **Rusjan, E.; et al., 90h:14070**
Sertöz, Sinan C^*-actions on Grassmann bundles and the cycle at infinity. **90f:32035**
Shafi, Q. *see* **Lazarides, G., 90c:14031**
Shapere, Alfred (*with* Wilczek, Frank) Self-dual models with theta terms. **90k:81170**
Šokorac, A. *see* **Rusjan, E.; et al., 90h:14070**
Tsuji, Hajime Stability of tangent bundles of minimal algebraic varieties. **90d:14021**
Tuite, Michael P. *see* **Balog, J., 90k:81181**
Wilczek, Frank *see* **Shapere, Alfred, 90k:81170**
Yoon, Yongsung *see* **Kim, Jae Kwan; et al., 90j:14049**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

Items with secondary classifications in 32K05

Larotonda, Angel (*with* Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. **90a:46126**
Zalduendo, Ignacio *see* **Larotonda, Angel, 90a:46126**

32K10 Non-Archimedean analytic spaces

Liu, Qing Ouverts analytiques d'une courbe algébrique en géométrie rigide. [Analytic open subsets of an algebraic curve in rigid geometry] **90f:32030**

Items with secondary classifications in 32K10

Chiarellotto, Bruno A comparison theorem in p-adic cohomology. **90i:14020**
Lütkebohmert, Werner Formal-algebraic and rigid-analytic geometry. **90m:14015**
Morita, Yasuo A p-adic theory of hyperfunctions. II. **90g:32012**

32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

Reichard, K. (*with* Spallek, K.) Product singularities and quotients. **90d:32046**
Spallek, K. *see* **Reichard, K., 90d:32046**

Items with secondary classifications in 32K15

Nguyen Dinh Sang (*with* Nguyễn Văn Khuê) Mixed spaces. **90c:32038**
Nguyễn Văn Khuê *see* **Nguyen Dinh Sang, 90c:32038**
Reichard, K. (*with* Spallek, K.) Product singularities and quotients of linear groups. **90e:58010**
Spallek, K. Foliations on singularities. **90a:57044**
— *see also* **Reichard, K., 90e:58010**

32K99 None of the above, but in this section

Jurchescu, Martin Relative Runge domains. **90b:32055**
Nguyen Dinh Sang (*with* Nguyễn Văn Khuê) Mixed spaces. **90c:32038**
Nguyễn Văn Khuê *see* **Nguyen Dinh Sang, 90c:32038**

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

Abate, Marco Annular bundles. **90e:32031**
Birbrair, L. B. Remarks on the structure of the space of regular algebraic homogeneous mappings. (Russian) **90m:32047**
Camacho, César Quadratic forms and holomorphic foliations on singular surfaces. **90b:32056**
Cerveau, Dominique Feuilletages réglés. (English summary) [Ruled foliations] **90a:32038**
Mihai, Alexandru Sur les connexions cohomologiques. [On cohomological connections] **90k:32085**
Ôike, Hiroshi Holomorphic tangent bundles and normal bundles of complex submanifolds of complex projective spaces. **90k:32086**
Ramanathan, Annamalai (*with* Subramanian, Swaminathan) Einstein-Hermitian connections on principal bundles and stability. **90b:32057**
Sertöz, Sinan Residues of singular holomorphic foliations. **90h:32057**
Subramanian, Swaminathan *see* **Ramanathan, Annamalai, 90b:32057**
Takhtadzhyan, L. A. *see* **Zograf, P. G., 90j:32033**
Yang, Jae-Hyun Holomorphic vector bundles over complex tori. **90k:32087**
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Abe, Yukitaka On toroidal groups. **90j:32035**
— Homomorphisms of toroidal groups. **90j:32036**
— Homogeneous line bundles over a toroidal group. **90k:32090**
Alvarez Gaumé, Luis Topological methods in string perturbation theory. **90k:81173**
Aroca Hernández-Ros, José M. Results of F. Cano on Thom's conjecture. (Spanish. Englis summary) **90c:57020**
Bhosle, Usha (*with* Ramanathan, Annamalai) Moduli of parabolic G-bundles on curves. **90h:14018**
Blažić, N. On almost Einstein holomorphic vector bundles over Hermitian surfaces. **90m:53061**
Brylinski, Jean-Luc Heights for local systems on curves. **90i:11066**
Cano, Felipe Equidesingularization for plane vector fields. (Spanish. English summary) **90h:32029**
— Réduction des singularitiés des feuilletages holomorphes. (English summary) [Reductio of the singularities of holomorphic foliations] **90g:32015**
Chaperon, Marc Invariant manifolds and a preparation lemma for local holomorphic flow and actions. **90c:58151**
Gromov, Mikhael L. Oka's principle for holomorphic sections of elliptic bundles. **90g:32017**
Ivashkovich, S. M. A Thullen-type extension theorem for line bundles with L^2-bounded curvature. **90e:32033**
Kawazumi, Nariya Folding surface bundles of genus 2. **90f:57031**
Manaresi, Mirella Ruled threefolds homeomorphic to $\mathbf{P}^2 \times \mathbf{P}^1$ and their divisors. **90g:14023**
Mason, L. J. (*with* Sparling, G. A. J.) Nonlinear Schrödinger and Korteweg-de Vries are reductions of self-dual Yang-Mills. **90d:58169**
Masterson, John T. Branched affine and projective structures on compact Riemann surfaces. **90b:30051**
Murray, M. K. Stratifying monopoles and rational maps. **90i:32032**
Nitta, Takashi Moduli spaces of Yang-Mills connections over quaternionic Kähler manifolds. **90i:53091**
Ramadas, T. R. (*with* Singer, I. M.; Weitsman, J.) Some comments on Chern-Simons gaug theory. **90m:58218**
Ramanathan, Annamalai *see* **Bhosle, Usha, 90h:14018**
Salinas, Norberto The Grassmann manifold of a C^*-algebra, and Hermitian holomorphic bundles. **90a:46187**
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Sparling, G. A. J. *see* **Mason, L. J., 90d:58169**
Tsuji, Hajime Stability of tangent bundles of minimal algebraic varieties. **90d:14021**
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32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 18F20, 55N30]

Beilinson, A. A. (*with* Shekhtman, V. V.) Determinant bundles and Virasoro algebras. **90m:32048**
Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] **90c:32039**
— (*with* Gillet, Henri; Soulé, Christophe) Classes caractéristiques secondaires et immersion en géométrie complexe. (English summary) [Secondary characteristic classes and immersions in complex geometry] **90c:32040**
Braam, Peter J. (*with* Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. **90i:32039**
Chinak, M. A. Curvature and linear subbundles of holomorphic vector bundles. **90k:3208**
Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. **90a:32039**
Esnault, Hélène Characteristic classes of flat bundles. **90i:32040**
Gillet, Henri *see* **Bismut, Jean-Michel; et al., 90c:32040**
Hurtubise, Jacques *see* **Braam, Peter J., 90i:32039**
Sebbar, A. Principe d'Oka-Grauert dans A^∞. [The Oka-Grauert principle in A^∞] **90i:3204**
Shekhtman, V. V. *see* **Beilinson, A. A., 90m:32048**
Soulé, Christophe *see* **Bismut, Jean-Michel; et al., 90c:32040**

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Bismut, Jean-Michel (*with* Bost, Jean-Benoît) Fibrés déterminants, métriques de Quillen et dégénérescence des courbes. (English summary) [Determinant line bundles, Quillen metrics and degenerating curves] **90a:58162**
— Complexe de Koszul, oscillateur harmonique et classe de Todd. (English summary) [Koszul complexes, harmonic oscillators and the Todd class] **90e:58147**
Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur le espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] **90d:58142**
— *see also* **Bismut, Jean-Michel, 90a:58162**
Bott, Raoul The topological constraints on analysis. **90j:01034**
Camacho, César (*with* Lins Neto, A.; Sad, P.) Minimal sets of foliations on complex projective spaces. **90e:58129**
Fujimoto, Yoshio Pluricanonical divisors of elliptic fiber spaces. **90a:32037**
Gillet, Henri (*with* Soulé, Christophe) Amplitude arithmétique. (English summary) [Arithmetic ampleness] **90a:14028**
Gómez-Mont, Xavier (*with* Kempf, George R.) Stability of meromorphic vector fields in projective spaces. **90d:14012**
Green, Paul S. (*with* Hübsch, Tristan; Lütken, C. A.) All the Hodge numbers for all Calabi Yau complete intersections. **90h:14067**
Hattori, Akio Corrections to: "Topology of the moduli space of SU(2)-instantons with instanton number 2" [J. Fac. Sci. Univ. Tokyo Sect. IA Math. **34** (1987), no. 3, 741–761;

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Hübsch, Tristan *see* **Green, Paul S.; et al., 90h:14067**

Kahn, Constantin P. M. ★ Reflexive Moduln auf einfach-elliptischen Flächensingularitäten. (German) [Reflexive modules over simply elliptic surface singularities] **90h:14045**

Kashiwara, Masaki Representation theory and D-modules on flag varieties. **90k:17029**

Kempf, George R. *see* **Gómez-Mont, Xavier, 90d:14012**

Kronheimer, P. B. The construction of ALE spaces as hyper-Kähler quotients. **90d:53055**

— A Torelli-type theorem for gravitational instantons. **90d:53056**

Levi, Roni N. Spectral theory of commuting operators and K-theory. (Russian. English summary) **90k:58218**

Lins Neto, A. *see* **Camacho, César; et al., 90e:58129**

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Rakowski, Mark (*with* Thompson, George) Connections on vector bundles over super Riemann surfaces. **90f:53058**

Sad, P. *see* **Camacho, César; et al., 90e:58129**

Schmid, Wilfried Homogeneous complex manifolds and representations of semisimple Lie groups. **90i:22025**

Snow, Dennis M. Homogeneous vector bundles. **90m:14051**

— Spanning homogeneous vector bundles. **90e:32036**

Soulé, Christophe *see* **Gillet, Henri, 90a:14028**

Subramanian, Swaminathan Mumford's example and a general construction. **90k:14014**

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Toma, Matei A class of nonalgebraic threefolds. (French summary) **90k:32084**

Zierau, Roger A construction of harmonic forms on $\mathrm{U}(p+1,q)/\mathrm{U}(p,q)\times\mathrm{U}(1)$. **90h:22019**

Zograf, P. G. (*with* Takhtadzhyan, L. A.) A local index theorem for families of $\bar{\partial}$-operators on Riemann surfaces. (Russian) **90b:58254**

Zucchini, R. A geometrical framework for twisted conformal field theory on Riemann surfaces. **90g:32027**

32L15 Bundle convexity [see also 32F10]

Tsai, I-Hsun Negatively curved metrics on Kodaira surfaces. **90h:32058**

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Chinak, M. A. Curvature and linear subbundles of holomorphic vector bundles. **90k:32088**

Enoki, Ichiro Stability and negativity for tangent sheaves of minimal Kähler spaces. **90a:32039**

Koiso, Norihito (*with* Sakane, Yusuke) Nonhomogeneous Kähler-Einstein metrics on compact complex manifolds. II. **90e:53061**

Sakane, Yusuke *see* **Koiso, Norihito, 90e:53061**

Simpson, Carlos T. Constructing variations of Hodge structure using Yang-Mills theory and applications to uniformization. **90e:58026**

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32L20 Vanishing theorems

Demailly, Jean-Pierre Une généralisation du théorème d'annulation de Kawamata-Viehweg. (English summary) [A generalization of the Kawamata-Viehweg vanishing theorem] **90e:32032**

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Guillén, F. (*with* Navarro Aznar, V.; Pascual Gainza, P.; Puerta Sales, Fernando) ★ Hyperrésolutions cubiques et descente cohomologique. (French) [Cubic hyperresolutions and cohomological descent] **90a:14024**

Hoffman, Jerome William On Kollár's vanishing theorems. I. **90k:14005**

Magnússon, Jón Singularités polaires et points de Weierstrass en codimension plus grande que un. [Polar singularities and Weierstrass points in codimension greater than one] **90d:32022**

Nadel, Alan Michael Multiplier ideal sheaves and existence of Kähler-Einstein metrics of positive scalar curvature. **90k:32061**

Nakayama, Noboru On Weierstrass models. **90m:14030**

Navarro Aznar, V. Théorèmes d'annulation. [Vanishing theorems] (*see* **90a:14024**)

— *see also* **Guillén, F.; et al., 90a:14024**

Pascual Gainza, P. *see* **Guillén, F.; et al., 90a:14024**

Puerta Sales, Fernando *see* **Guillén, F.; et al., 90a:14024**

Sebbar, A. Principe d'Oka-Grauert dans A^{∞}. [The Oka-Grauert principle in A^{∞}] **90i:32041**

32L25 Twistor theory, double fibrations

Eastwood, Michael The Penrose transform for curved ambitwistor space. **90b:32058**

Nakashima, Martin M. Singletons and twistors. **90d:32047**

Niederle, Jiří Twistors—"spinors" of SU(2, 2), their generalizations and achievements. **90b:32059**

Tsanov, Vasil V. Moduli of twistor spaces. (*see* **90i:00004**)

Ward, R. S. Twistors in $2+1$ dimensions. **90k:32089**

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Campana, F. Espaces de twisteurs dont l'espace des cycles a ses composantes irréductibles compactes. (English summary) [Twistor spaces whose cycle space has compact irreducible components] **90e:32022**

Cederwall, Martin An extension of the twistor concept to string theory. **90h:81136**

Donaldson, S. (*with* Friedman, Robert David) Connected sums of self-dual manifolds and deformations of singular spaces. **90e:32027**

Eisenberg, Yeshayahu Toward interacting (super)field theories from (super)twistors. **90g:81227**

Friedman, Robert David *see* **Donaldson, S., 90e:32027**

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— Integral geometry for complexes of rational curves. **90k:53109**

Gover, Rod Conformally invariant operators of standard type. **90k:58254**

Guest, M. A. The energy of harmonic maps obtained by the twistor construction. **90d:58034**

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Harnett, Gerald Twistors for uniform acceleration. **90k:81093**

Hodges, A. P. (*with* Penrose, Roger; Singer, Michael A.) A twistor conformal field theory for four space-time dimensions. **90j:81203**

Hughston, L. P. Applications of Cartan spinors to differential geometry in higher dimensions. **90b:53016**

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LeBrun, Claude Quaternionic-Kähler manifolds and conformal geometry. **90e:53062**

Manin, Yu. I. Supersymmetry and supergravity in the superspace of null supergeodesics. **90a:58009**

Mantini, Lisa A. An L^2-cohomology construction of negative spin mass zero equations for $\mathrm{U}(p,q)$. **90c:22040**

Merkulov, S. A. Twistors and conformally invariant fields. **90h:53095**

— A conformal nonlinear graviton. (Russian) **90j:83041**

— Local supertwistors and $N=2$ conformal supergravity. **90i:83086**

Musso, Emilio On the twistor space of the six-sphere. **90h:53052**

Penrose, Roger *see* **Hodges, A. P.; et al., 90j:81203**

Perjés, Z. Twistor internal symmetry groups. **90i:81183**

Poon, Y. Sun Algebraic dimension of twistor spaces. **90f:32029**

Sekigawa, K. Almost Hermitian structures on twistor bundles. **90d:53084**

Shnider, S. (*with* Wells, R. O., Jr.) ★ Supermanifolds, super twistor spaces and super Yang-Mills fields. **90g:58005**

— *see also* **Harnad, J.; et al., 90i:81071**

Singer, Michael A. *see* **Hodges, A. P.; et al., 90j:81203**

Šťovíček, P. ★ On the initial condition for instanton solutions. **90g:53037**

Urbantke, H. Local differential geometry of null curves in conformally flat space-time. **90k:53046**

Verdier, Jean-Louis Applications harmoniques de S^2 dans S^4. II. [Harmonic mappings from S^2 into S^4. II] **90e:58036**

Volkov, D. V. (*with* Zheltukhin, A. A.) Extension of the Penrose representation and its use to describe supersymmetric models. **90d:53027**

Volovich, I. V. Constraint equations in supersymmetric gauge theories and vector bundles over twistors. **90h:53097**

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Zheltukhin, A. A. *see* **Volkov, D. V., 90d:53027**

32L99 None of the above, but in this section

Ivashkovich, S. M. A Thullen-type extension theorem for line bundles with L^2-bounded curvature. **90e:32033**

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Andrzejczak, Grzegorz Characteristic homomorphism for transversely holomorphic foliations via the Cauchy-Riemann equations. **90c:57019**

Boutet de Monvel, L. Le théorème de l'indice relatif. [The relative index theorem] **90j:58141**

Camacho, César (*with* Sad, P.) ★ Pontos singulares de equações diferenciais analíticas. (Portuguese) [Singular points of analytic differential equations] **90a:58126**

— (*with* Cano, Felipe; Sad, P.) Absolutely isolated singularities of holomorphic vector fields. **90i:58153**

Cano, Felipe ★ Desingularization strategies for three-dimensional vector fields. **90i:32020a**

— ★ Desingularization strategies for three-dimensional vector fields. **90i:32020b**

— *see also* **Camacho, César; et al., 90i:58153**

Cheung, Chi-Keung Hermitian metrics of negative holomorphic sectional curvature on some hyperbolic manifolds. **90d:32043**

Duchamp, T. (*with* Kalka, M.) The equivalence problem for complex foliations of complex surfaces. **90k:32032**

Garland, H. (*with* Murray, M. K.) Why instantons are monopoles. **90c:53179**

Gómez-Mont, Xavier (*with* Muciño, J.) Persistent cycles for holomorphic foliations having a meromorphic first integral. **90b:58220**

— (*with* Sundararaman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. **90k:32066**

Kalka, M. *see* **Duchamp, T., 90k:32032**

Medvedeva, N. B. The first focus quantity of a complex monodromic singularity. (Russian. English summary) **90a:58136**

Montano, David (*with* Sonnenschein, Jacob) The topology of moduli space and quantum field theory. **90k:81228**

Muciño, J. *see* **Gómez-Mont, Xavier, 90b:58220**

Murray, M. K. *see* **Garland, H., 90c:53179**

Nakamura, Keiichi On the isomonodromic deformation of certain Pfaffian systems associated to Appell's systems (F_2), (F_3). **90a:58006**

Pyartli, A. S. The dimension of the set of joint spectra of polynomial vector fields. **90c:58132**

Reiffen, Hans-Jörg Leafspaces and integrability. **90c:32014**

Sad, P. *see* **Camacho, César, 90a:58126** *and* **90i:58153**

Sonnenschein, Jacob *see* **Montano, David, 90k:81228**

Sudarshan, E. C. G. Topology and quantum internal symmetries in nonlinear field theories. **90j:81080**
Sundararaman, Duraiswami *see* **Gómez-Mont, Xavier, 90k:32066**
Vaĭntrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) **90h:32049**

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32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Abe, Yukitaka Another projective embedding of toroidal groups. **90h:32059**
— Homogeneous line bundles over a toroidal group. **90k:32090**
Budzyński, Robert J. (*with* Klimek, Sławomir; Sadowski, Paweł) The group of local biholomorphisms of $\mathbf{C}^1$ and conformal field theory in the operator formalism. **90d:32048**
Feldmüller, Dorothee The Picard group of a complex quotient variety. **90k:32091**
Fujiki, Akira Finite automorphism groups of complex tori of dimension two. **90f:32031**
Geatti, Laura Holomorphic automorphisms of the tube domain over the Vinberg cone. (Italian summary) **90b:32060**
Gellhaus, Christoph (*with* Wurzbacher, Tilmann) Holomorphic group actions with many compact orbits. **90j:32034**
Hauser, H. (*with* Müller, Gerd) Algebraic singularities have maximal reductive automorphism groups. **90c:32041**
Heinzner, Peter Fixpunktmengen kompakter Gruppen in Teilgebieten Steinscher Mannigfaltigkeiten. [Fixed point sets of compact groups in subdomains of Stein manifolds] **90k:32092**
Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. **90c:32042**
Kato, Mitsuyoshi On some abelian complex reflection groups. **90k:32093**
Klimek, Sławomir *see* **Budzyński, Robert J.; et al., 90d:32048**
Lescure, F. Sur les compactifications équivariantes des groupes commutatifs. (English summary) [Equivariant compactifications of commutative groups] **90f:32032**
Loeb, Jean-Jacques Quelques aspects de l'analyse complexe sur les groupes de Lie. [Some aspects of complex analysis on Lie groups] **90a:32040**
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Neeman, Amnon Analytic questions in geometric invariant theory. **90g:32034**
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Sampieri, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. **90f:32033**
Sharonov, S. È. Classification of groups of biholomorphic automorphisms of analytic polyhedra. **90b:32061**
Vila Freyer, Ricardo Francisco Automorphisms of complex compact surfaces. (Spanish) **90c:32044**
Winkelmann, Jörg On free holomorphic **C**-actions on $\mathbf{C}^n$ and homogeneous Stein manifolds. **90k:32094**
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Abate, Marco Annular bundles. **90e:32031**
Barrett, D. E. (*with* Bedford, E.; Dadok, Jiri) T^n-actions on holomorphically separable complex manifolds. **90k:32003**
Bedford, E. *see* **Barrett, D. E.; et al., 90k:32003**
Benson, Chal (*with* Gordon, Carolyn S.) Kähler structures on compact solvmanifolds. **90g:53079**
Cerveau, Dominique (*with* Moussu, R.) Groupes d'automorphismes de $(\mathbf{C},0)$ et équations différentielles $ydy+\cdots=0$. (English summary) [Groups of automorphisms of $(\mathbf{C},0)$ and differential equations of the form $ydy+\cdots=0$] **90m:58192**
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tom Dieck, Tammo (*with* Petrie, Ted) The Abhyankar-Moh problem in dimension 3. **90i:14049**
Frankel, Sidney Complex geometry of convex domains that cover varieties. **90i:32037**
Futaki, Akito (*with* Mabuchi, Toshiki) An obstruction class and a representation of holomorphic automorphisms. **90c:32049**
Gordon, Carolyn S. *see* **Benson, Chal, 90g:53079**
Heinzner, Peter Kompakte Transformationsgruppen Steinscher Räume. [Compact transformation groups of Stein spaces] **90m:32051**
Isaev, A. V. Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. **90m:32042**
— (*with* Mishchenko, M. A.) Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. **90b:32047**
Kim, Kang Tae Theory of domains in $\mathbf{C}^n$ from geometric viewpoint. **90i:32027**
— Complete localization of domains with noncompact automorphism groups. **90i:32035**
Knop, Friedrich Der kanonische Modul eines Invariantenrings. (English summary) [The canonical module of a ring of invariants] **90k:14053**
Kraft, Hanspeter (*with* Petrie, Ted; Randall, John D.) Quotient varieties. **90b:14057**
Mabuchi, Toshiki *see* **Futaki, Akito, 90c:32049**
Mishchenko, M. A. *see* **Isaev, A. V., 90b:32047**
Moser-Jauslin, Lucy Some almost homogeneous group actions on smooth complete rational surfaces. **90a:14067**
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Neretin, Yu. A. Holomorphic continuations of representations of the group of diffeomorphisms of the circle. (Russian) **90k:22032**
Petrie, Ted *see* **Kraft, Hanspeter; et al., 90b:14057** *and* **tom Dieck, Tammo, 90i:14049**
Randall, John D. *see* **Kraft, Hanspeter; et al., 90b:14057**
Schwarz, Gerald W. The topology of algebraic quotients. **90m:14043**
Sertöz, Sinan $\mathbf{C}^*$-actions on Grassmann bundles and the cycle at infinity. **90f:32035**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Abe, Yukitaka On toroidal groups. **90j:32035**
— Homomorphisms of toroidal groups. **90j:32036**
Akyıldız, Ersan (*with* Carrell, J.) A generalization of the Kostant-Macdonald identity. **90h:32060**
Arabia, Alberto Cohomologie T-équivariante de la variété de drapeaux d'un groupe de Kac-Moody. (English summary) [T-equivariant cohomology of the flag manifold of a Kac-Moody group] **90i:32042**
Azukawa, Kazuo Criteria for quasi-symmetricity and the holomorphic sectional curvature o a homogeneous bounded domain. **90h:32061**
Carlson, James A. (*with* Toledo, Domingo) Integral manifolds, harmonic mappings, and the abelian subspace problem. **90a:32041**
Carrell, J. *see* **Akyıldız, Ersan, 90h:32060**
Chen, Ji Yang Some classes of extension spaces of nonsymmetric classical domains. (Chinese) **90k:32095**
— Some classes of nonsymmetric homogeneous domains. (Chinese) **90k:32096**
Chen, Zhi He The invariant differential operators of order two for a class of nonsymmetric domains. (Chinese) **90c:32045**
Dorfmeister, J. Proof of the radical conjecture for homogeneous Kähler manifolds. **90i:32043**
Gel'fand, I. M. (*with* Graev, M. I.) Hypergeometric functions related to the Grassmannian $G_{3,6}$. **90c:32046**
Gherardelli, Francesco Quasi-abelian varieties with complex multiplication. (Italian. English summary) **90k:32097**
Gilligan, B. (*with* Oeljeklaus, K.; Richthofer, W.) Homogeneous complex manifolds with more than one end. **90e:32034**
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Graev, M. I. *see* **Gel'fand, I. M., 90c:32046**
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— *see also* **Gilligan, B.; et al., 90e:32034**
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— The nondegeneration of the Hodge-de Rham spectral sequence. **90b:32062**
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Ahern, Patrick (*with* Bruna, Joaquim) Maximal and area integral characterizations of Hardy-Sobolev spaces in the unit ball of $\mathbf{C}^n$. **90h:32011**
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Loeb, Jean-Jacques Quelques aspects de l'analyse complexe sur les groupes de Lie. [Some aspects of complex analysis on Lie groups] **90a:32040**
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Saito, Masa-Hiko Generic Torelli theorem for hypersurfaces in compact irreducible Hermitian symmetric spaces. **90d:32041**
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32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

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D'Atri, Joseph E. (*with* Zhao, Yan Da) A refined structure theorem for normal j-algebras. **90e:32038**
— (*with* Dorfmeister, J.) Flat totally geodesic submanifolds of quasisymmetric Siegel domains. **90f:32034**
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Faraut, J. (*with* Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. **90m:32049**
Geatti, Laura Holomorphic automorphisms of some tube domains over nonselfadjoint cones. **90a:32043**
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Kostadinov, G. D. Almost holomorphic functions on generalized symmetric spaces. (Russian. English summary) **90b:32063**
Looijenga, Eduard L^2-cohomology of locally symmetric varieties. **90a:32044**
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Stoll, M. Rate of growth of pth means of invariant potentials in the unit ball of $\mathbf{C}^n$. **90j:32037**
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Kazama, Yoichi (*with* Suzuki, Hisao) New $N=2$ superconformal field theories and superstring compactification. **90g:81249**
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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

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Gherardelli, Francesco On a class of abelian varieties. (Italian. English summary) **90e:14045**
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Mok, Ngaiming (*with* Zhong, Jia Qing) Compactifying complete Kähler-Einstein manifolds of finite topological type and bounded curvature. **90d:32045**
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Oda, Takayuki (*with* Schwermer, Joachim) Mixed Hodge structures and automorphic forms for Siegel modular varieties of degree two. **90m:11072**
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32N10 Automorphic forms

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Items with secondary classifications in 32N10

(Gottschling, E.) *see* **Siegel, C. L., 90m:11074**
Hatada, Kazuyuki Correspondences for Hecke rings and l-adic cohomology groups on smooth compactifications of Siegel modular varieties. **90j:11036**
Knopp, M. I. Generation of the graded ring of automorphic forms on the Hecke groups. **90e:11057**
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32N15 Automorphic functions in symmetric domains

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Kudla, Stephen S. (*with* Millson, John J.) Tubes, cohomology with growth conditions and an application to the theta correspondence. **90k:11054**
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33–XX Special functions {33–XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42C05. Expansions in orthogonal functions are treated in 42C10, 42C15.}

33–01 Elementary exposition; textbooks

Lawden, Derek F. ★ Elliptic functions and applications. **90h:33001**

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(Sislian, Jean) *see* **Smirnov, Vladimir Ivanovich, 90k:00002b**
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33–02 Advanced exposition (research surveys, monographs, etc.)

Agarwal, Ratan P. Special functions and their applications: keynote address. (*see* **90m:33001**)
— Glimpses of the theory of generalized hypergeometric functions. **90e:33001**

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Askey, Richard Beta integrals and the associated orthogonal polynomials. **90k:33001**

33–03 Historical (must also be assigned at least one classification number from Section 01)

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Babbage, Charles ★ The works of Charles Babbage. Vol. 1. **90g:01062**
(Berg, Maxine) *see* **Babbage, Charles, 90g:01062**
(Bromley, Allan G.) *see* **Babbage, Charles, 90g:01062**
(Campbell-Kelly, Martin) *see* **Babbage, Charles, 90g:01062**
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(Dubbey, John M.) *see* **Babbage, Charles, 90g:01062**

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Biography:
Babbage, Charles *see* **Babbage, Charles, 90g:01062**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Tsimring, Sh. E. ★ Специальные функции и определенные интегралы. (Russian) [Special functions and definite integrals] **90b:33001**

Items with secondary classifications in 33–04

Ronveaux, A. (*with* Thiry, G.) Differential equations of some orthogonal families in REDUCE. **90k:34001**
Thiry, G. *see* **Ronveaux, A., 90k:34001**

33–06 Proceedings, conferences, etc.

(Denis, R. Y.) *see* **Proceedings: Symposium on Special Functions and their Applications, 90m:33001**
(Singh, Udai Pratap) *see* **Proceedings: Symposium on Special Functions and their Applications, 90m:33001**

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Symposium on Special Functions and their Applications ★ Proceedings of National Symposium on Special Functions and their Applications. **90m:33001**
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Items with secondary classifications in 33–06

(Vinuesa Tejedor, Jaime) *see* **Orthogonal polynomials and their applications, 90a:42001**

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Orthogonal Polynomials ★ Orthogonal polynomials and their applications. **90a:42001**
Laredo ★ Orthogonal polynomials and their applications. **90a:42001**
Orthogonal polynomials and their applications ★ Orthogonal polynomials and their applications. **90a:42001**

33A10 Exponential and trigonometric functions

Baker, I. N. (*with* Rippon, P. J.) Iterating exponential functions with cyclic exponents. **90g:33001**
Burbea, J. (*with* Rao, Calyampuli Radhakrishna) Some inequalities between hyperbolic functions. **90d:33001**
Bustoz, Joaquin (*with* Ismail, E. H. Mourad) A positive trigonometric sum. **90e:33002**
Cosgrove, C. *see* **Glasser, M. L., 90h:33002**
Glasser, M. L. (*with* Cosgrove, C.) Mallows' integral and some generalizations. **90h:33002**
Gregorac, R. J. On Baica's trigonometric identity. **90b:33002**
Ismail, E. H. Mourad *see* **Bustoz, Joaquin, 90e:33002**
Obaid, S. A. (*with* Rung, D. C.) New mathematical identities with applications to flexure and torsion. **90a:33001**
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Items with secondary classifications in 33A10

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Geddes, K. O. (*with* Scott, T. C.) Recipes for classes of definite integrals involving exponentials and logarithms. **90f:12006**
Kanoveĭ, V. G. Correctness of the Euler method of decomposing the sine function into an infinite product. **90c:26005**
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Kölbig, K. S. *see* **Adamchik, V. S., 90b:33014**
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Obaid, S. A. An extension to integration by parts. **90k:26004**
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Shenton, L. R. (*with* Kemp, A. W.) An S-fraction and $\ln^2(1+x)$. **90k:65090**
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Srivastava, Radhey Shyam Compound interest problems as nonhomogeneous difference equations. **90c:90024**

33A15 Gamma and beta functions

Al-Saqabi, Bader N. *see* **Kalla, Shyam, 90g:33002**
Aomoto, K. Correlation functions of the Selberg integral. **90e:33003**
Askey, Richard Beta integrals and q-extensions. **90e:33004**
— Computer algebra and definite integrals. **90h:33003**
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Klotz, Jerome An incomplete beta series with argument $x(1-x)$. **90b:33003**
Laforgia, Andrea (*with* Sismondi, Silvana) A geometric mean inequality for the gamma function. (Italian summary) **90j:33002**
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Bragg, L. R. Some series whose coefficients involve the values $\zeta(n)$ for n odd. **90g:11113**
Butzer, P. L. (*with* Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. **90m:33016**
Cosgrove, C. *see* **Glasser, M. L., 90h:33002**
Day, J. W. R. A new simple straightforward and practical asymptotic expansion for the incomplete beta function. **90c:65165**
Fisher, Brian A result on the beta function. **90i:46078**
Garvan, F. G. Some Macdonald-Mehta integrals by brute force. **90k:33030**
Glasser, M. L. (*with* Cosgrove, C.) Mallows' integral and some generalizations. **90h:33002**
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Kadell, Kevin W. J. The q-Selberg polynomials for $n=2$. **90d:05026**

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3A25 Elliptic functions and integrals

l-Saqabi, Bader N. A generalization of elliptic-type integrals. **90a:33003**

ndrews, George Mock theta functions. **90h:33005**

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Das, Jyoti A generalisation of elliptic integrals. **90b:33005**

Ferrari, Ezio Further results from the representation of elliptic functions via generalized trigonometric functions. **90e:33007**

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Petrov, G. S. Complex zeroes of an elliptic integral. **90m:33002**

Rodríguez Sanjuan, Antonio Two new addition theorems for elliptic integrals of the third kind with positive circular parameters. (Spanish. English summary) **90a:33004**

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Belykh, V. N. Numerical algorithms without saturation in nonstationary problems of the hydrodynamics of an ideal fluid with free boundaries. (Russian) **90c:76003**

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Clarke, Francis The universal von Staudt theorems. **90a:11026**

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Françon, J. *see* **Flajolet, Philippe, 90k:05010**

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Hoyt, William L. On twisted Legendre equations and Kummer surfaces. **90h:14050**

Kartashov, L. M. Approximation of functions of the class W^rH^ω by exponential polynomials on rectangles. (Russian. English summary) **90f:30045**

Lawden, Derek F. ★ Elliptic functions and applications. **90h:33001**

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Melrose, G. (*with* Tweed, J.) Some triple trigonometric series. **90b:45019**

Nakayama, R. *see* **Grundberg, J., 90b:81127**

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Philibert, Georges Une mesure d'indépendance algébrique. [A measure of algebraic independence] **90b:11071**

Purtilo, James M. *see* **Berndt, Bruce C.; et al., 90b:11038**

Ross, Dieter K. Enveloping theorems for some linear and nonlinear differential equations. (Polish summary) **90i:34018**

Tweed, J. *see* **Melrose, G., 90b:45019**

Vamanamurthy, Mavina K. *see* **Anderson, G. D.; et al., 90k:30032**

Vuorinen, Matti *see* **Anderson, G. D.; et al., 90k:30032**

33A30 Simple hypergeometric functions of one and several variables

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 90a:33005**

Agrawal, Hukum Chand On certain basic hypergeometric functions of several variables. **90e:33008**

Agrawal, R. D. *see* **Modi, F.**, (Not in MR)

Agrawal, S. M. *see* **Gupta, Kailash Chandra, 90e:33013** *and* **90h:33010**

Al-Salam, W. A. (*with* Ismail, Mourad E. H.) q-beta integrals and the q-Hermite polynomials. **90c:33001**

Aomoto, K. Special value of the hypergeometric function ${}_3F_2$ and connection formulae among asymptotic expansions. **90f:33001**

Audich, Sunil Certain integral formulas involving the multivariable H-function. **90e:33009**

Bhagirathi, Neera A. On basic bilateral hypergeometric series and continued fractions. **90h:33007**

Bhargava, D. C. Integrals involving generalised A-function. **90h:33008**

Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) On some generalizations of Ramanujan's continued fraction identities. **90a:33005**

Bressoud, David M. Almost poised basic hypergeometric series. **90e:33010**

Chouksey, Surendra K. (*with* Sharma, C. K.) On the fractional derivatives of the H-function of several complex variables. **90f:33002**

— (*with* Sharma, C. K.) On the integration of H-function of several complex variables with respect to its parameters. **90e:33011**

Denis, R. Y. On certain generating functions for basic hypergeometric polynomials. **90f:33003**

— On certain special transformations of poly-basic hypergeometric functions. **90c:33002**

— On certain transformations of special basic bilateral hypergeometric series. **90b:33007**

— On certain summation formulae for terminating double basic hypergeometric functions. **90h:33009**

— On expansions of q-series of three variables. **90j:33004**

Dimovski, Ivan Hristov (*with* Kiryakova, Virginia S.) Generalized Poisson representations of hypergeometric functions ${}_pF_q$, $p<q$ using fractional integrals. (Bulgarian summary) **90c:33003**

Dunster, T. M. Uniform asymptotic expansions for Whittaker's confluent hypergeometric functions. **90e:33012**

Ehrenpreis, Leon Hypergeometric functions. **90f:33004**

Ekhad, Shalosh B. Short proofs of two hypergeometric summation formulas of Karlsson. **90j:33005**

Gupta, Kailash Chandra (*with* Agrawal, S. M.) On a chain involving the H-function transform. **90h:33010**

— (*with* Agrawal, S. M.) A finite integral involving a general class of polynomials and the multivariable H-function. **90e:33013**

Gupta, L. C. Integral representation and transformations of certain hypergeometric functions of higher order in two variables. **90e:33014**

Gupta, Mukul Certain basic hypergeometric transformations and summation formulae of special type. **90m:33003**

Gustafson, Robert A. Multilateral summation theorems for ordinary and basic hypergeometric series in $\mathrm{U}(n)$. **90e:33015**

Ismail, Mourad E. H. *see* **Al-Salam, W. A., 90c:33001**

Jain, R. N. Some summation formulae for ${}_pF_q(1)$. **90h:33011**

Kandu, Devendra Certain expansions of generalized basic hypergeometric functions of two variables. **90i:33003**

— Certain results involving a class of generalized Lauricella functions. **90g:33003**

Karlsson, Per. W. (*with* Srivastava, Hari M.) A note on Henrici's triple product theorem. **90m:33004**

Khan, F. U. (*with* Qureshi, M. I.; Pathan, M. A.) On certain combinations of finite sums involving triple hypergeometric series $F^{(3)}$. **90e:33016**

Khanna, I. K. (*with* Yadava, Krishna) Differential formula for the generalised polynomial set. **90b:33008**

Kiryakova, Virginia S. Generalized fractional derivative representations of hypergeometric functions ${}_pF_q$, with $p<q$. (Bulgarian summary) **90c:33004**

— *see also* **Dimovski, Ivan Hristov, 90c:33003**

Krattenthaler, Christian q-analogue of a two variable inverse pair of series with applications to basic double hypergeometric series. **90g:33004**

Lahiri, Maya A general polynomial set and its properties. **90c:33005**

Lal, Charanjit On the sum and reducible case of a certain Appell's function. **90f:33005**

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Miller, Sanford S. (*with* Mocanu, Petru T.) Univalence of Gaussian and confluent hypergeometric functions. **90m:33005**

Miller, Willard, Jr. Symmetry techniques and orthogonality for q-series. **90k:33005**

Milne, S. C. A q-analog of the Gauss summation theorem for hypergeometric series in $\mathrm{U}(n)$. **90c:33006**

Mishra, Anil Kumar A note on certain generating relation involving generalized basic hypergeometric functions. **90h:33012**

Mocanu, Petru T. *see* **Miller, Sanford S., 90m:33005**

Modi, F. (*with* Agrawal, R. D.) Integration of multivariate H-function with respect to its parameters. (Not in MR)

Mukherjee, Sanchita On a system of multiple hypergeometric series. **90b:33009**

Nahta, S. L. On some finite integrals involving the multivariable H-function. **90g:33005**

— Some expansion formulae for the multivariable H-function. **90g:33006**

Nuttall, J. Hermite-Padé polynomials associated with certain generalized hypergeometric functions. **90i:33005**

Okubo, Kenjiro (*with* Takano, Kyoichi; Yoshida, Setsuji) A connection problem for the generalized hypergeometric equation. **90e:33017**

Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. **90e:33018**

Pathan, M. A. *see* **Khan, F. U.; et al., 90e:33016**

Prasad, Y. N. *see* **Singh, V. P., 90k:33006**

Qureshi, M. I. *see* **Khan, F. U.; et al., 90e:33016**

Rahman, Mizan Some extensions of Askey-Wilson's Q-beta integral and the corresponding orthogonal systems. **90b:33010**

Ramanathan, K. G. Hypergeometric series and continued fractions. **90b:33011**

Rathie, Navratna Reduction formulas for the H-function of two variables. **90i:33006**

Saigo, Megumi On properties of hypergeometric functions of three variables, F_M and F_G. **90f:33006**

— (*with* Srivastava, Hari M.) The behaviors of the Appell double hypergeometric series F_4 and certain Lauricella triple hypergeometric series near the boundaries of their convergence regions. **90c:33007**

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— Certain expansions for basic hypergeometric function of two variables. **90g:33007**

— On q-series expansions. **90j:33006**

Singh, V. P. (*with* Prasad, Y. N.) Some integral and expansion formulae for the multivari-

able I-function. (Hindi. English summary) **90k:33006**
Somashekara, D. D. *see* **Bhargava, Srinivasamurthy; et al., 90a:33005**
Srivastava, Hari M. An extension of the q-Saalschützian theorem. **90f:33007**
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Agarwal, Ratan P. Glimpses of the theory of generalized hypergeometric functions. **90e:33001**
Askey, Richard Beta integrals and the associated orthogonal polynomials. **90k:33001**
Bang, Seung-Jin (*with* Kim, Mun Hwa) Zeros of a function given by the series of functions. **90a:65113**
Berndt, Bruce C. ★ Ramanujan's notebooks. Part II. **90b:01039**
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Bhatt, R. C. *see* **Singh, O. V., 90k:33016**
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Bressoud, David M. Lattice paths and the Rogers-Ramanujan identities. **90k:05009**
Butzer, P. L. (*with* Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. **90m:33016**
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Gasper, George Bibasic summation, transformation and expansion formulas, q-analogues of Clausen's formula, and nonnegative basic hypergeometric series. **90j:05025**
Gaveau, Bernard *see* **Debiard, Amédée, 90a:22009** *and* **90g:22011**
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— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Projective-dual varieties and hyperdeterminants. **90m:14045**
— (*with* Graev, M. I.) Hypergeometric functions related to the Grassmannian $G_{3,6}$. **90c:32046**
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Glasser, M. L. (*with* Cosgrove, C.) Mallows' integral and some generalizations. **90h:33002**
Golub, A. P. Proofs of Padé and van Rossum theorems using generalized moment representations. (Russian) **90d:41027**
— Convergence of denominators of simultaneous Padé approximants for a set of degenerate hypergeometric functions. **90a:30106**
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Gupta, Rajni Transformation formulas for the multivariable H-function. **90c:33010**
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Henrici, Peter Product theorems for formal hypergeometric series. **90a:05019**
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Koornwinder, Tom H. Group theoretic interpretations of Askey's scheme of hypergeometric orthogonal polynomials. **90b:33024**
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Mukherjee, Sanchita Some multidimensional generating relations. **90j:33011**
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Nishimoto, Katsuyuki (*with* Kalla, Shyam) Use of fractional calculus to solve certain linea differential equations. **90c:26026**
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— *see also* **Srinivasa Rao, K., 90d:22027** *and* **90i:81036**
(Ramanujan, Srinivasa) *see* **Berndt, Bruce C., 90b:01039**
Salikhov, V. Kh. On reducibility and linear reducibility of linear differential equations. (Russian) **90m:12010**
— Irreducibility of a class of hypergeometric equations. (Russian) **90m:12011**
Saxena, Ram Kishore (*with* Modi, G. C.; Kalla, Shyam) A basic analogue of H-function of two variables. (Spanish summary) **90c:33011**
— *see also* **Mathai, A. M., 90b:62063**
Schempp, Walter Extensions of the Heisenberg group and coaxial coupling of transverse eigenmodes. **90i:78032**
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Singhal, Mukesh On integrals involving a new general transcendental function. **90g:33009**
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— *see also* **Rajeswari, V., 90i:22041**
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Takayama, Nobuki Holonomic solution of Weisner's operator. **90m:35009**
Takegahara, Yugen On Rademacher's three-term relations for Dedekind sums. **90m:11064**
Vasil′ev, V. A. (*with* Gel′fand, I. M.; Zelevinskiĭ, A. V.) General hypergeometric functions on complex Grassmannians. (Russian) **90b:22014**
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33A35 Generalized hypergeometric functions of one and several variables (E-functions, G-functions, H-functions, etc.)

Adamchik, V. S. (*with* Kölbig, K. S.) A definite integral of a product of two polylogarithms. **90b:33014**
Agrawal, S. M. *see* **Gupta, Kailash Chandra, 90f:33009**
Arora, Arun Kumar (*with* Koul, C. L.) Multiple integrals involving the H-function of several variables. (Hindi. English summary) **90k:33007**
Belov, B. I. Explicit polynomial solutions of recurrence equations of hypergeometric type. (Russian) **90c:33008**
Bhagirathi, Neera A. *see* **Denis, R. Y., 90c:33009**
Bhati, S. S. Certain expansions for the generalised H-function of two variables. (Hindi. English summary) **90f:33008**
Bhatt, R. C. (*with* Singh, O. V.) Summation theorems for a certain class of triple hypergeometric series. **90b:33015**
— *see also* **Singh, O. V., 90k:33016**
Biedenharn, L. C. (*with* Louck, J. D.) Some properties of generalized hypergeometric coefficients. **90a:33006**
Caboz, R. *see* **Loiseau, J.-F.; et al., 90b:33016**
Chaurasia, V. B. L. Integration of certain products associated with the multivariable H-function. **90g:33008**
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Denis, R. Y. (*with* Bhagirathi, Neera A.) On certain transformations of q-series. **90c:33009**
Gasper, George (*with* Rahman, Mizan) A nonterminating q-Clausen formula and some related product formulas. **90h:33013**
Golub, A. P. Generalized moment representations of basic hypergeometric series. **90k:33008**
Goyal, A. N. Special functions of several variables. (*see* **90m:33001**)
Grosjean, C. C. (*with* Sharma, Rajendra Kumar) Transformation formulae for hypergeometric series in two variables. II. **90a:33007**
Gupta, Kailash Chandra (*with* Agrawal, S. M.) Fractional integral formulae involving a general class of polynomials and the multivariable H-function. **90f:33009**
Gupta, Rajni Certain finite double integrals involving biorthogonal, a general class of polynomials and multivariable H-function. **90i:33007**
— Transformation formulas for the multivariable H-function. **90c:33010**
Gupta, V. G. Some integral formulas involving the product of the multivariable H-function and a general class of polynomials. **90k:33009**
Huckle, T. On certain products of hypergeometric series. **90a:33008**
Ismail, Mourad E. H. (*with* Libis, Carl A.) Contiguous relations, basic hypergeometric functions, and orthogonal polynomials. I. **90k:33010**
Kalla, Shyam *see* **Saxena, Ram Kishore; et al., 90c:33011**
Kölbig, K. S. *see* **Adamchik, V. S., 90b:33014**
Koul, C. L. *see* **Sharma, S. C., 90e:33020** *and* **Arora, Arun Kumar, 90k:33007**
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Nahta, S. L. Heat conduction and the H-function of several complex variables. (Hindi. English summary) **90k:33013**

Nikiforov, A. F. (*with* Uvarov, V. B.) Classical orthogonal polynomials of a discrete variable and their representation in the form of generalized q-hypergeometric series. (Russian) **90k:33014**

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Ram, Chena *see* **Saxena, Ram Kishore, 90a:33009**

Saxena, Ram Kishore (*with* Modi, G. C.; Kalla, Shyam) A basic analogue of H-function of two variables. (Spanish summary) **90c:33011**

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Sharma, C. K. (*with* Shukla, V. S.) On the multiple hypergeometric functions and H-function of several complex variables. (Not in MR)

Sharma, Rajendra Kumar *see* **Grosjean, C. C., 90a:33007**

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Singh, M. B. (*with* Shrivastava, B. M. L.) On some results involving the products of Horn's function and Kampé de Fériet function. **90e:33021**

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— *see also* **Bhatt, R. C., 90b:33015**

Singh, Surya Narain On q-series and continued fractions. **90b:33017**

— On q-hypergeometric function and continued fractions. **90i:33009**

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Vaksman, L. L. q-analogues of Clebsch-Gordan coefficients, and the algebra of functions on the quantum group SU(2). **90k:33018**

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33A40 Cylindrical functions, Bessel functions

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33A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials

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33A50 Gegenbauer functions

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33A55 Lamé, Mathieu, spheroidal wave functions

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33A60 Other wave functions

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33A65 Orthogonal special functions and polynomials (Chebyshev, Hermite, Jacobi, Laguerre, etc.)

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33A75 Special functions and Lie groups [see also 22Exx, 43A80]

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33A99 Miscellaneous topics

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34–XX Ordinary differential equations

34–00 Handbooks, dictionaries, and other reference works

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Birkhoff, Garrett (*with* Rota, Gian-Carlo) ★ Ordinary differential equations. **90h:34001**
Heuser, Harro ★ Gewöhnliche Differentialgleichungen. (German) [Ordinary differential equations.] **90f:34001**
Iooss, G. (*with* Joseph, Daniel D.) ★ Elementary stability and bifurcation theory. **90i:34001**
Joseph, Daniel D. *see* **Iooss, G., 90i:34001**
Krivosheya, S. A. *see* **Samoïlenko, A. M.; et al., 90m:34002**
(Luca, Nicolaie) *see* **Moroşanu, Gheorghe, 90m:34001**
Moroşanu, Gheorghe ★ Ecuaţii diferenţiale. (Romanian) [Differential equations] **90m:34001**
Perestyuk, N. A. *see* **Samoïlenko, A. M.; et al., 90m:34002**
Ross, Shepley L. ★ Introduction to ordinary differential equations. **90a:34001**
(Ross, Shepley L., II) *see* **Ross, Shepley L., 90a:34001**
Rota, Gian-Carlo *see* **Birkhoff, Garrett, 90h:34001**
Samoïlenko, A. M. (*with* Krivosheya, S. A.; Perestyuk, N. A.) ★ Дифференциальные уравнения. (Russian) [Differential equations] **90m:34002**

Items with secondary classifications in 34–01

(Caloz, G.) *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**
Cuvelier, C. (*with* Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 1. (French) [Partial differential equations for engineers. Theory and numerical methods. 1] **90k:35003a**
— (*with* Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 2. (French) [Partial differential equations for engineers. Theory and numerical methods. 2] **90k:35003b**
Descloux, J. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**
Jeffries, Clark ★ Mathematical modeling in ecology. **90j:92035**
(Kalinin, Konstantin) *see* **Krasnov, M. L.; et al., 90k:00014**
Kiselev, A. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Krasnov, M. L. (*with* Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] **90k:00014**
Makarenko, G. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Rappaz, J. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**
Stuart, Charles A. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**
Vladimirov, V. S. ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] **90m:00009**
Zwahlen, B. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

34–02 Advanced exposition (research surveys, monographs, etc.)

Deif, A. ★ Sensitivity analysis in linear systems. **90f:34002**
Filippov, A. F. ★ Differential equations with discontinuous righthand sides. **90i:34002**
Gaïshun, I. V. ★ Линейные уравнения в полных производных. (Russian) [Linear total differential equations] **90g:34001**
Halvorsen, S. Gotskalk *see* **Mingarelli, A. B., 90a:34002**
Ignat′ev, A. O. *see* **Savchenko, A. Ya., 90h:34002**
Kadalbajoo, M. K. (*with* Reddy, Y. N.) Asymptotic and numerical analysis of singular perturbation problems: a survey. **90e:34001**
Manevich, L. I. (*with* Mikhlin, Yu. V.; Pilipchuk, V. N.) ★ Метод нормальных колебаний для существенно нелинейных систем. (Russian) [The method of normal oscillations for essentially nonlinear systems] **90i:34003**

Mikhlin, Yu. V. *see* **Manevich, L. I.; et al., 90i:34003**
Mingarelli, A. B. (*with* Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. **90a:34002**
(Myshkis, A. D.) *see* **Petrovskiĭ, I. G., 90a:34003**
(Oleĭnik, O. A.) *see* **Petrovskiĭ, I. G., 90a:34003**
(Petrova, Irina) *see* **Petrovskiĭ, I. G., 90a:34003**
Petrovskiĭ, I. G. ★ Théorie des équations différentielles ordinaires et des équations intégrales. (French) [Theory of ordinary differential equations and integral equations] **90a:34003**
Pilipchuk, V. N. *see* **Manevich, L. I.; et al., 90i:34003**
Reddy, Y. N. *see* **Kadalbajoo, M. K., 90e:34001**
Savchenko, A. Ya. (*with* Ignat′ev, A. O.) ★ Некоторые задачи устойчивости неавтономных динамических систем. (Russian) [Some problems in the stability of nonautonomous dynamical systems] **90h:34002**
Schwabik, Štefan Generalized differential equations: special results. (Russian summary) **90f:34003**
Ye, Yan Qian Qualitative theory of ODEs in the complex domain. (Chinese) **90d:34001**
Zhu, Si Ming Recent developments outside China in the stability theory of ODEs. (Chinese) **90a:34004**

Items with secondary classifications in 34–02

Agarwal, Ravi Prakash ★ Boundary value problems for higher order differential equations. **90j:34025**
Arnol′d, V. I. (*with* Vishik, M. I.; Il′yashenko, Yu. S.; Kalashnikov, A. S.; Kondrat′ev, V. A.; Kruzhkov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleĭnik, O. A.; Filippov, A. F.; Shubin, M. A.) Some unsolved problems in the theory of differential equations and mathematical physics. **90m:00003**
Azbelev, N. V. Stability of linear systems with aftereffect. (Russian) **90c:34077**
(Barbu, Viorel) *see* **Moroşanu, Gheorghe, 90a:34139**
Bobrowski, Dobiesław ★ Wstęp do losowych równań różniczkowych zwyczajnych. (Polish) [Introduction to random ordinary differential equations] **90b:34092**
Filippov, A. F. *see* **Arnol′d, V. I.; et al., 90m:00003**
Harris, Christopher J. (*with* Valenca, J. M. E.) ★ Устойчивость динамических систем с обратной связью. (Russian) [The stability of feedback dynamical systems] **90g:93070**
Il′yashenko, Yu. S. *see* **Arnol′d, V. I.; et al., 90m:00003**
Kalashnikov, A. S. *see* **Arnol′d, V. I.; et al., 90m:00003**
Kondrat′ev, V. A. *see* **Arnol′d, V. I.; et al., 90m:00003**
Kruzhkov, S. N. *see* **Arnol′d, V. I.; et al., 90m:00003**
Ladde, G. S. (*with* Lakshmikantham, V.; Zhang, Bing Gen) ★ Oscillation theory of differential equations with deviating arguments. **90h:34118**
Lakshmikantham, V. (*with* Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. **90h:34073**
— *see also* **Ladde, G. S.; et al., 90h:34118**
Landis, E. M. *see* **Arnol′d, V. I.; et al., 90m:00003**
Leela, S. *see* **Lakshmikantham, V.; et al., 90h:34073**
Lepin, A. Ya. (*with* Lepin, L. A.) ★ Краевые задачи для обыкновенного дифференциального уравнения второго порядка. (Russian) [Boundary value problems for a second-order ordinary differential equation] **90h:34031**
Lepin, L. A. *see* **Lepin, A. Ya., 90h:34031**
Marić, V. Differential and algebraic equations in Hardy fields. **90m:12012**
Martynyuk, A. A. *see* **Lakshmikantham, V.; et al., 90h:34073**
Millionshchikov, V. M. *see* **Arnol′d, V. I.; et al., 90m:00003**
Moroşanu, Gheorghe ★ Nonlinear evolution equations and applications. **90a:34139**
Nishioka, Keiji ★ Daisūteki bibun hōteishiki no ippankai—bibun daisū nyumon. (Japanese) [General solutions of algebraic differential equations—an introduction to differential algebra] **90a:12016**
Oleĭnik, O. A. *see* **Arnol′d, V. I.; et al., 90m:00003**
Omari, P. (*with* Villari, Gabriele; Zanolin, Fabio) A survey of recent applications of fixed point theory to periodic solutions of the Liénard equation. **90b:34062**
(Pazy, A.) *see* **Vrabie, Ioan I., 90f:47101**
Shubin, M. A. *see* **Arnol′d, V. I.; et al., 90m:00003**
(Tolmachëv, V. V.) *see* **Harris, Christopher J., 90g:93070**
Valenca, J. M. E. *see* **Harris, Christopher J., 90g:93070**
Villari, Gabriele *see* **Omari, P.; et al., 90b:34062**
Vishik, M. I. *see* **Arnol′d, V. I.; et al., 90m:00003**
Vrabie, Ioan I. ★ Compactness methods for nonlinear evolutions. **90f:47101**
Zanolin, Fabio *see* **Omari, P.; et al., 90b:34062**
Zhang, Bing Gen *see* **Ladde, G. S.; et al., 90h:34118**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34–03

(Cherry, T. M.) *see* **Grimshaw, R., 90c:01036**
Dell'Aglio, Luca (*with* Israel, Giorgio) The themes of stability and qualitative analysis in the works of Levi-Civita and Volterra. (Italian) **90c:01031**
— (*with* Israel, Giorgio) La théorie de la stabilité et l'analyse qualitative des équations différentielles ordinaires dans les mathématiques italiennes: le point de vue de Tullio Levi-Civita. [The theory of stability and qualitative analysis of ordinary differential equations in Italian mathematics: the point of view of Tullio Levi-Civita] **90i:01021**
Grimshaw, R. An analysis of the impact of T. M. Cherry's work on asymptotic expansions. **90c:01036**
Israel, Giorgio *see* **Dell'Aglio, Luca, 90c:01031** *and* **90i:01021**
Krbiľa, Jaroslav (*with* Moravčík, Jozef) 15 years of the work of the Seminar on Differential Equations of the Faculty of Mechanical and Electrical Engineering at the University of Transport and Telecommunications at Žilina. I, II. (Slovak. English, German and Russian summaries) **90b:01102**
(Levi-Civita, Tullio) *see* **Dell'Aglio, Luca, 90c:01031** *and* **90i:01021**
Mira, Christian Some historical aspects concerning the theory of dynamic systems. **90k:01022**
Moravčík, Jozef *see* **Krbiľa, Jaroslav, 90b:01102**
Tomilova, A. E. History of the origin and development of the WKB method. (Russian) **90d:01033**
(Volterra, V.) *see* **Dell'Aglio, Luca, 90c:01031**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

Gerdt, V. P. (*with* Kostov, N. A.) Computer algebra in the theory of ordinary differential equations of Halphen type. **90e:34002**
Kostov, N. A. *see* **Gerdt, V. P., 90e:34002**
MacCallum, Malcolm A. H. An ordinary differential equation solver for REDUCE. (*see* **90i:00005**)
Ronveaux, A. (*with* Thiry, G.) Differential equations of some orthogonal families in REDUCE. **90k:34001**
Thiry, G. *see* **Ronveaux, A., 90k:34001**
Wang, Dong Ming Computer algebraic methods for investigating plane differential systems of center and focus type. **90f:34004**
Wolf, Thomas Otto A package for the analytic investigation and exact solution of differential equations. **90i:34004**

Items with secondary classifications in 34–04

Grigor′ev, F. N. (*with* Kistlerov, V. L.) Application of computer algebra methods in analyzing the stability of linear dynamical systems. (Not in MR)
Kistlerov, V. L. *see* **Grigor′ev, F. N.,** (Not in MR)
Sit, William Y. On Goldman's algorithm for solving first-order multinomial autonomous systems. **90f:34025**

34–06 Proceedings, conferences, etc.

(Azbelev, N. V.) *see* **Functional-differential equations, 90b:34001**
(Deng, Zong Qi) *see* **Ordinary differential equations and control theory, 90j:34001**
(Liang, Zhao Jun) *see* **Ordinary differential equations and control theory, 90j:34001**
(Liao, Xiao Xin) *see* **Ordinary differential equations and control theory, 90j:34001**
(Otrokov, N. F.) *see* **Differential and integral equations, 90d:34002**
(Ryabov, Yu. A.) *see* **Studies in the theory of differential equations, 90d:34003**
(Wu, Ke Qian) *see* **Ordinary differential equations and control theory, 90j:34001**

Items listed otherwise than by author

Algebraic manipulation for groups and differential equations ★ Gun to bibun noteishiki no sushiki shori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for groups and differential equations] **90a:34005**
Conference:
  Ordinary Differential Equations and Control Theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] **90j:34001**
Differential and integral equations ★ Дифференциальные и интегральные уравнения. (Russian) [Differential and integral equations] **90d:34002**
Functional-differential equations ★ Функционально-дифференциальные уравнения. (Russian) [Functional-differential equations] **90b:34001**
Ordinary differential equations and control theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] **90j:34001**
Studies in the theory of differential equations ★ Исследования по теории дифференциальных уравнений. (Russian) [Studies in the theory of differential equations] **90d:34003**
Symposium:
  Algebraic Manipulation for Groups and Differential Equations ★ Gun to bibun noteishiki no sushiki shori shisutemu no kenkyu. (Japanese) [Algebraic manipulation for groups and differential equations] **90a:34005**
Wuhan ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] **90j:34001**

Items with secondary classifications in 34–06

(Aftabizadeh, A. R.) *see* **Differential equations and applications, 90j:00016**
(Azbelev, N. V.) *see* **Boundary value problems, 90k:00017**
(Dafermos, C. M.) *see* **Differential equations, 90f:00003**
(Jarvis, R. J.) *see* **Ordinary and partial differential equations, 90h:00018**
(Klokov, Yu. A.) *see* **Theory and numerical methods for solving boundary value problems of differential equations,** (Not in MR)
(Ladas, G.) *see* **Differential equations, 90f:00003**
(Papanicolaou, G.) *see* **Differential equations, 90f:00003**
(Sharipov, Sh. R.) *see* **Qualitative and analytic methods in the dynamics of systems, 90a:00011** *and* **Problems in the analytic and qualitative theory of differential equations, 90c:00008**
(Sleeman, B. D.) *see* **Ordinary and partial differential equations, 90h:00018**

Items listed otherwise than by author

Algebraic manipulation for differential equations ★ Bibun hoteishiki no sūshikishori shisutemu no kenkyū. (Japanese) [Algebraic manipulation for differential equations] **90f:58001**
Boundary value problems ★ Краевые задачи. (Russian) [Boundary value problems] **90k:00017**
Columbus, OH ★ Differential equations and applications. Vol. I, II. **90j:00016**
Complex analysis and global analysis—from the viewpoint of differential equations ★ Fukusokaiseki to taiikikaiseki—bibun hōteishike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] **90c:58002**
Conference:
  Differential Equations and their Applications ★ Equadiff 7. **90j:00017a**
  — ★ Equadiff 7. **90j:00017b**
  — ★ Equadiff 7. **90j:00017c**

onference: (*cont'd.*)
— ★ Equadiff 7. **90j:00017d**
EQUADIFF ★ Differential equations. **90f:00003**
Ordinary and Partial Differential Equations ★ Ordinary and partial differential equations. Vol. II. **90h:00018**
Theory and Applications of Differential Equations ★ Differential equations and applications. Vol. I, II. **90j:00016**
Theory and Numerical Methods for Solving Boundary Value Problems of Differential Equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
ifferential equations ★ Differential equations. **90f:00003**
ifferential equations and applications ★ Differential equations and applications. Vol. I, II. **90j:00016**
undee ★ Ordinary and partial differential equations. Vol. II. **90h:00018**
quadiff ★ Equadiff 7. **90j:00017a**
— ★ Equadiff 7. **90j:00017b**
— ★ Equadiff 7. **90j:00017c**
— ★ Equadiff 7. **90j:00017d**
ürmala ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
rdinary and partial differential equations ★ Ordinary and partial differential equations. Vol. II. **90h:00018**
rague ★ Equadiff 7. **90j:00017a**
— ★ Equadiff 7. **90j:00017b**
— ★ Equadiff 7. **90j:00017c**
— ★ Equadiff 7. **90j:00017d**
Problems in the analytic and qualitative theory of differential equations ★ Вопросы аналитической и качественной теории дифференциальных уравнений. (Russian) [Problems in the analytic and qualitative theory of differential equations] **90c:00008**
Qualitative and analytic methods in the dynamics of systems ★ Качественные и аналитические методы в динамике систем. (Russian) [Qualitative and analytic methods in the dynamics of systems] **90a:00011**
Study of dynamical systems ★ Rikigakakei no kenkyū. (Japanese) [The study of dynamical systems] **90h:58025**
Symposium:
  Algebraic Manipulation for Differential Equations ★ Bibun hoteishiki no sūshikishori shisutemu no kenkyū. (Japanese) [Algebraic manipulation for differential equations] **90f:58001**
  Complex Analysis and Global Analysis—from the Viewpoint of Differential Equations ★ Fukusokaiseki to taiikikaiseki—bibun hōteishike no shiten kara. (Japanese) [Complex analysis and global analysis—from the viewpoint of differential equations] **90c:58002**
  Study of Dynamical Systems ★ Rikigakakei no kenkyū. (Japanese) [The study of dynamical systems] **90h:58025**
Theory and numerical methods for solving boundary value problems of differential equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Xanthi ★ Differential equations. **90f:00003**

34Axx General theory

Volkmann, Peter Über die Differentialgleichung $y'' = f(x,y)$. [On the differential equation $y'' = f(x,y)$] (*see* **90f:00003**)

Items with secondary classifications in 34Axx

Ross, Shepley L. ★ Introduction to ordinary differential equations. **90a:34001**
(Ross, Shepley L., II) *see* **Ross, Shepley L., 90a:34001**

34A05 Solutions in closed form, integration by quadratures, reduction of differential equations

Bereslavskiĭ, È. N. Integration in closed form of a class of Fuchsian equations and its applications. (Russian) **90h:34003**
Derevenskiĭ, V. P. Integrability in quadratures of a third-order linear ordinary differential equation. (Russian) (Not in MR)
Dorofeev, B. V. Calculating fast terms in some differential equations of motion. (Russian) **90j:34002**
González-López, Artemio Symmetry and integrability by quadratures of ordinary differential equations. **90a:34006**
Kalaĭda, A. V. (*with* Shevchenko, A. B.; Shevchenko, M. B.) Some problems of the theory of linear differential equations. (Ukrainian. Russian summary) **90a:34007**
Ranganathan, P. V. A direct procedure for deriving the invariants of certain nonlinear dynamical systems. **90b:34002**
Shevchenko, A. B. *see* **Kalaĭda, A. V.; et al., 90a:34007**
Shevchenko, M. B. *see* **Kalaĭda, A. V.; et al., 90a:34007**

Items with secondary classifications in 34A05

Asadova, M. Yu. (*with* Yuldasheva, D.) Solution of systems of ordinary differential equations by means of complexes. (Russian) **90g:34003**
Berkovich, L. M. (*with* Nechaevskiĭ, M. L.) On the group properties and integrability of the Fowler-Emden equations. **90b:34013**
— Canonical forms of ordinary linear differential equations. **90a:34083**
Bluman, George W. (*with* Kumei, Sukeyuki) Use of group analysis in solving overdetermined systems of ordinary differential equations. **90f:58156**
Denisov, A. M. Inverse problems for nonlinear ordinary differential equations. **90k:34008**
Derevenskiĭ, V. P. Quasilinear matrix differential equations. (Russian. English summary) **90d:34027**
Flessas, George P. New exact solutions of the complex Lorenz equations. **90a:34014**
Grudo, È. I. On the theory of a class of linear integro-differential equations. **90h:45007**
Jódar, Lucas An algebraic approach for solving boundary value matrix problems: existence, uniqueness and closed form solutions. **90a:34038**
— (*with* Navarro, E.) On complete set of solutions for polynomial matrix equations. **90m:34015**
Joshi, Nalini (*with* Kruskal, Martin D.) An asymptotic approach to the connection problem for the first and the second Painlevé equations. **90d:34016**
Kharlamova, E. I. On the Clebsch integral. (Russian) **90b:70004**
Kochubeĭ, A. N. The Cauchy problem for evolution equations of fractional order. **90g:34063**
Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. **90i:70011**
Kruskal, Martin D. *see* **Joshi, Nalini, 90d:34016**
Kumei, Sukeyuki *see* **Bluman, George W., 90f:58156**
MacCallum, Malcolm A. H. An ordinary differential equation solver for REDUCE. (*see* **90i:00005**)
Navarro, E. *see* **Jódar, Lucas, 90m:34015**
Nechaevskiĭ, M. L. *see* **Berkovich, L. M., 90b:34013**
Oreshkina, L. N. Necessary and sufficient conditions for the existence of a fourth quadratic integral in some problems of the dynamics of a rigid body. (Russian) **90b:70007**
Pohle, H.-J. (*with* Wolf, Thomas Otto) Automatic determination of dynamical symmetries of ordinary differential equations. (German summary) (Not in MR)
Polewczak, Jacek Ordinary differential equations on closed subsets of Fréchet spaces with applications to fixed point theorems. **90j:47086**
Qin, Chao Bin (*with* Qin, Yuan Xun) On a system of second order differential equations with periodic impulse coefficients. **90j:34056**
Qin, Yuan Xun *see* **Qin, Chao Bin, 90j:34056**
Ramgulam, U. *see* **Rogers, Colin, 90e:76041**
Rogers, Colin (*with* Ramgulam, U.) A nonlinear superposition principle and Lie group invariance: application in rotating shallow water theory. **90e:76041**
Sobotka, Zdeněk Rheological models and solutions of the nonhomogeneous ordinary differential equations. **90i:73052**
Wolf, Thomas Otto *see* **Pohle, H.-J.**, (Not in MR)
Yarskiĭ, A. S. Solvability in generalized quadratures of second-order linear differential equations. (Russian) (*see* **90d:34003**)
Yuldasheva, D. *see* **Asadova, M. Yu., 90g:34003**

34A08 Equations not solved with respect to the highest-order derivative, singular solutions

Bobisud, L. E. (*with* O'Regan, D.) Existence of solutions to some singular initial value problems. **90b:34003**
Campbell, Stephen L. A computational method for general higher index nonlinear singular systems of differential equations. (*see* **90m:93003**)
Chernyshov, K. I. *see* **Sobolev, V. A., 90d:34006**
Fomin, V. I. A singular differential equation with a small parameter in the case of a variable bounded operator coefficient. **90f:34005**
Griepentrog, E. (*with* März, Roswitha) Basic properties of some differential-algebraic equations. (German and Russian summaries) **90d:34004**
Hanke, Michael (*with* März, Roswitha; Neubauer, A.) On the regularization of linear differential-algebraic equations. **90m:34003**
März, Roswitha Some new results concerning index-3 differential-algebraic equations. **90d:34005**
— Index-2 differential-algebraic equations. **90a:34008**
— *see also* **Griepentrog, E., 90d:34004** *and* **Hanke, Michael; et al., 90m:34003**
Mazanik, S. A. Reducibility of systems of linear differential equations that are not solved with respect to the derivatives. (Russian) **90b:34004**
Neubauer, A. *see* **Hanke, Michael; et al., 90m:34003**
O'Regan, D. *see* **Bobisud, L. E., 90b:34003**
Rabier, P. J. Implicit differential equations near a singular point. **90m:34004**
Skripnik, V. P. Equations with a matrix that is small in L^2 multiplying the derivative. (Russian) **90h:34004**
— Convergence in L^2 of solutions of equations with a small matrix multiplying the derivative. (Not in MR)
Sobolev, V. A. (*with* Chernyshov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. **90d:34006**
Tkachenko, V. I. An invariant torus of a linear system of differential equations with a degenerate matrix multiplying the derivatives. (Russian) (*see* **90k:00018**)
Webb, Jeffrey R. L. (*with* Welsh, Stewart C.) Existence and uniqueness of initial value problems for a class of second-order differential equations. **90m:34005**
Welsh, Stewart C. *see* **Webb, Jeffrey R. L., 90m:34005**
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— On existence and asymptotic behaviour of solutions of singular Cauchy problem for certain system of ordinary differential equations. **90c:34002**
Dolgiĭ, Yu. F. (*with* Shimanov, S. N.) The effect of a small delay on the stability of canonical systems of linear differential equations. (Russian) **90i:34109**

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Zaidman, Samuel Uniqueness of the Cauchy problem for the equation $Bu'(t) = Au(t)$ in Hilbert spaces. (French summary) **90m:34126**

34A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions [see also 45D05]

Adamchik, V. S. (*with* Lizarev, A. D.) Wronskians of solutions of a class of differential equations with polynomial coefficients. **90f:34006**

Ad″yutov, M. M. (*with* Klokov, Yu. A.) An initial value problem for second-order ordinary differential equations with singularities. (Russian) **90f:34007**

Akhmetov, M. U. (*with* Perestyuk, N. A.) Differentiable dependence of solutions of sampled-data systems on initial data. **90j:34003**

Aly, M. M. *see* **Zaghrout, Afaf A. S., 90i:34006**

Arrate Peña, Manuel Local existence of solutions for ordinary differential equations involving dissipative and compact functions. (Not in MR)

Ashordiya, M. T. Continuous dependence of the solution of the Cauchy problem for a system of generalized ordinary differential equations on a parameter. (Russian. English and Georgian summaries) **90d:34007**

Atdaev, S. A two-sided approximation method for the generalized Cauchy problem. (Russian) **90d:34008**

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Deng, Ying *see* **Liang, Yuan Di**, (Not in MR)

Denkowska, Zofia (*with* Denkowski, Zdzisław) Generalized solutions to ordinary differential equations with discontinuous right-hand sides via Γ-convergence. **90m:34006**

Denkowski, Zdzisław *see* **Denkowska, Zofia, 90m:34006**

Diblík, Josef On existence and asymptotic behaviour of solutions of singular Cauchy problem for certain system of ordinary differential equations. **90c:34002**

DiPerna, R. J. (*with* Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. **90j:34004**

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34A15 Initial value problems: continuation of solutions

Hu, Shun Rong A prolongation theorem for ODEs in closed domains. (Chinese. English summary) **90g:34002**

Lungu, Nicolae Continuability of the solutions of Liénard-type systems by two Liapunov functions. (*see* **90b:00008**)

— Necessary and sufficient conditions for continuability of solutions of Liénard-type systems. **90d:34013**

— Noncontinuation results for generalized Liénard differential systems. (*see* **90m:00031**)

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34A20 Differential equations in the complex domain [see also 30D05]

Ablowitz, M. J. *see* **Fokas, A. S.; et al., 90h:34007**

Asadova, M. Yu. (*with* Yuldasheva, D.) Solution of systems of ordinary differential equations by means of complexes. (Russian) **90g:34003**

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Cooper, S. Clement (*with* Magnus, Arne; Jones, William B.) General T-fraction solutions to Riccati differential equations. **90j:34006**

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Karl, Johann ★ Nichtlineare Umlaufseigenwertprobleme bei Differentialgleichungen im Komplexen. (German) [Nonlinear boundary eigenvalue problems for complex differential equations] **90j:34008**

Khan, Tariq M. (*with* Can, Mehmet) On the initial value problems for the second Painlevé equation. (Turkish summary) **90f:34011**

Klimashevskaya, I. N. *see* **Kondratenya, S. G.; et al., 90h:34008**

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Yarskiĭ, A. S. Solvability in generalized quadratures of second-order linear differential equations. (Russian) (*see* **90d:34003**)
Yuldasheva, D. *see* **Asadova, M. Yu., 90g:34003**
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Buffet, E. (*with* Pulé, J. V.) Gelation: the diagonal case revisited. **90e:82058**
Kozitskiĭ, Yu. V. (*with* Mel′nik, N. O.) Eigenfunctions of infinite-order differential operators in a class of entire functions. (Russian) **90f:47067**
Litsyna, E. M. The Cauchy matrix of an infinite system of functional-differential equations. (Russian) **90g:34069**
Mel′nik, N. O. *see* **Kozitskiĭ, Yu. V., 90f:47067**
Nishimoto, Katsuyuki ★ Fractional calculus. Vol. III. **90m:26016**
Paukshto, M. V. A combinatorial identity that is connected with differential equations of infinite order. (Russian) **90k:34005**
Penrose, Oliver Metastable states for the Becker-Döring cluster equations. **90h:82027**
Pulé, J. V. *see* **Buffet, E., 90e:82058**
Rakin, L. V. On the problem of measuring acceleration by means of a string accelerometer. (Russian) **90m:45019**
Wagner, Eberhard Lösungsapproximation und Fehlerabschätzungen für ein unendliches System linearer, gewöhnlicher Differentialgleichungen mit konstanter Bandmatrix. (English and Russian summaries) [Solution approximation and error estimates for an infinite system of linear, ordinary differential equations with constant band matrix] **90m:34027**
Yamazaki, Susumu On an exponential-type dynamical system: $\dot{x}_k = -\frac{1}{2}[\exp(x_{k-1} - x_k) + \exp(x_k - x_{k+1})]$. **90f:70019**

34A40 Differential inequalities

Adje, Assohoun Existence et multiplicité des solutions d'équations différentielles ordinaires du premier ordre à non-linéarité discontinue. (English summary) [Existence and multiplicity of solutions of first-order ordinary differential equations with discontinuous nonlinearity] **90h:34017**
Bennewitz, Christer The HELP inequality in the regular case. **90i:34016**
Bochenek, Jan On a maximum principle for fourth order ordinary differential inequalities. **90a:34027**
Janiak, Janina On the existence of solutions of a system of differential inequalities. **90d:34033**
Joshi, S. R. (*with* Shendge, G. R.) Integral inequalities in Banach lattices. **90j:34018**
Korman, Philip A maximum principle for fourth order ordinary differential equations. **90j:34019**
Lepin, A. Ya. A priori boundedness of derivatives for a system of differential inequalities. **90g:34008**
Ma, Wan Biao *see* **Si, Li Geng, 90m:34024**
Mohammed, Ahmed (*with* Porru, Giovanni) Maximum principles for ordinary differential inequalities of fourth and sixth order. **90m:34023**
Porru, Giovanni *see* **Mohammed, Ahmed, 90m:34023**
Shendge, G. R. *see* **Joshi, S. R., 90j:34018**
Si, Li Geng (*with* Ma, Wan Biao) Reverse-direction time-delay differential inequalities and their applications. (Chinese) **90m:34024**
Werbowski, Jarosław Oscillations of advanced differential inequalities. **90d:34034**

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Aubert, G. Quelques remarques sur les notions de 1-rang convexité et de polyconvexité en dimensions 2 et 3. (English summary) [Some remarks on the notions of rank-1 convexity and polyconvexity in dimensions 2 and 3] **90e:49029**
Fernandes, M. L. (*with* Zanolin, Fabio) Repelling conditions for boundary sets using Liapunov-like functions. I. Flow-invariance, terminal value problem and weak persistence. **90c:58091**
Grace, S. R. (*with* Lalli, B. S.) Oscillation theorems for damped-forced *n*th order nonlinear differential equations with deviating arguments. **90a:34157**
Jaroš, Jaroslav Bounded oscillations of higher-order functional-differential inequalities induced by forcing functions. (Russian and Slovak summaries) **90d:34138**
— On oscillation of certain class of solutions of retarded differential inequalities. (Russian and Slovak summaries) **90d:34139**
Kong, Qing Kai (*with* Zhang, Bing Gen) Some generalization of Gronwall-Bihari integral inequalities and their applications. **90k:26028**
Ladde, G. S. (*with* Sirisaengtaksin, O.) Large-scale stochastic singularly perturbed systems. **90a:93101**
Lakshmikantham, V. (*with* Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. **90h:34073**
Lalli, B. S. *see* **Grace, S. R., 90a:34157**
Leela, S. *see* **Lakshmikantham, V.; et al., 90h:34073**
Li, Yong^6 *see* **Zhou, Qin De, 90h:34088**
Ma, Wan Biao Investigation of the stability of the zero solution to large-scale linear dynamical systems with variable coefficients and delays by using vector *V* functions. (Chinese. English summary) **90h:34122**
Martynyuk, A. A. *see* **Lakshmikantham, V.; et al., 90h:34073**
Mirică, Ştefan Inégalités différentielles impliquant l'équation de Bellman-Isaacs et ses généralisations dans la théorie du contrôle optimal. [Differential inequalities implying the Bellman-Isaacs equation and its generalizations in optimal control theory] **90a:49030**
Pachpatte, B. G. On abstract differential inequalities in ordered Banach spaces. **90e:47056**
Redheffer, Ray (*with* Volkmann, Peter) Differential inequalities and divisibility in operator algebras. **90e:47037**
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summary) (*see* **90d:00037**)
Ruan, Jiong Nonoscillatory behaviour caused by retarded and advanced arguments for even-order functional differential inequalities and equations. **90d:34142**
Seman, Ján Oscillation theorems for second order nonlinear delay inequalities. (Russian summary) **90i:34107**
Sirisaengtaksin, O. *see* **Ladde, G. S., 90a:93101**
Sun, Min Some analytic aspects of the linear-programming approach to the numerical solution of singular stochastic control problems. **90c:93123**
Thompson, H. B. Differentiability properties of subfunctions for second order ordinary differential equations. **90j:34035**
Volkmann, Peter *see* **Redheffer, Ray, 90e:47037**
Vučković, Miroslav *see* **Rosić, Nikola**, (**90d:00037**)
Yan, Ju Rang Necessary and sufficient conditions for oscillations of delay differential inequalities. **90e:34142**
Żanolin, Fabio *see* **Fernandes, M. L., 90c:58091**
Zhang, Bing Gen *see* **Kong, Qing Kai, 90k:26028**
Zhang, Han Lin On the singular perturbation of a nonlinear ordinary differential equation with two parameters. **90h:34036**
Zhao, Wei Li Singularly perturbed nonlinear boundary value problems on infinite interval. **90g:34023**
Zhou, Qin De (*with* Li, Yong^6) The asymptotic expansions of singularly perturbed boundary value problems. **90h:34088**

34A45 Theoretical approximation of solutions

Al'yankova, T. A. (*with* Rubanik, V. P.) Periodic solutions of essentially nonlinear systems with delay. (Russian) (Not in MR)
Arabshahi, Abdollah *see* **Razzaghi, Mohsen, 90c:34013**
Banaś, Józef (*with* Rivero Mendoza, Jesús) Generic property of Tonelli's method for ordinary differential equations. **90j:34020**
Bilenko, V. I. (*with* Konovalov, V. N.; Lukovskiĭ, I. A.; Luchka, A. Yu.; Pukhov, G. E.; Ronto, N. I.) Dzyadyk's approximation methods for solving differential and integral equations. **90d:34035**
Bozhenkova, I. V. (*with* Vavilov, S. A.) The method of statistical prediction for a class of dynamical systems. (Russian) **90i:34017**
Busenberg, Stavros (*with* Hill, L. Thomas) Construction of differential equation approximations to delay differential equations. **90h:34018**
Campbell, Stephen L. Distributional convergence of BDF approximations to solutions of descriptor systems. **90h:34019**
Díaz Bejarano, José *see* **Garcia-Margallo, J., 90j:34021**
Dzyadyk, V. K. (*with* Ostrovetskiĭ, L. A.) An approximation method for the approximation by polynomials of the solution of a boundary value problem and its derivatives for ordinary linear differential equations. **90b:34016**
Emmanuele, G. Existence of approximate solutions for ODEs under Carathéodory assumptions. (*see* **90j:00016**)
Garcia-Margallo, J. (*with* Díaz Bejarano, José) Generalized Fourier series for nonlinear systems: application to the study of limit cycles in second-order approximation. **90j:34021**
Hadid, S. Exponentially large estimates for solutions of systems of differential equations. (Arabic summary) **90f:34020**
Hill, L. Thomas *see* **Busenberg, Stavros, 90h:34018**
Hirata, Miguel H. *see* **Silva-Freire, Atila P., 90j:34022**
Kiełek, Zbigniew An application of the convolution iterates to evolution equation in Banach space. **90g:34009**
Koçak, Cevdet A method for approximate construction of solution of first order differential equations. (*see* **90f:00003**)
Konovalov, V. N. *see* **Bilenko, V. I.; et al., 90d:34035**
Kozubovskaya, I. G. Asymptotic solutions of some nonlinear differential equations that describe nonstationary processes. (Russian) **90m:34025**
Kuznetsov, Yu. K. (*with* Orlov, V. N.) Adaptation of the power series method in the approximate solution of nonlinear differential equations to singular points. (Russian) (*see* **90d:34002**)
Luchka, A. Yu. *see* **Bilenko, V. I.; et al., 90d:34035**
Lukovskiĭ, I. A. *see* **Bilenko, V. I.; et al., 90d:34035**
Orlov, V. N. *see* **Kuznetsov, Yu. K.**, (**90d:34002**)
Ostrovetskiĭ, L. A. *see* **Dzyadyk, V. K., 90b:34016**
Ovezdurdyev, Kh. On the use in a numerical-analytic method of approximations obtained by the trigonometric collocation method. (Russian) (*see* **90d:00011**)
Podolyan, S. V. Periodic solutions of nonlinear matrix differential equations. (Russian. English summary) **90a:34028**
Pukhov, G. E. *see* **Bilenko, V. I.; et al., 90d:34035**
Razzaghi, Mohsen (*with* Arabshahi, Abdollah) Solution of linear two-point boundary value problems via polynomial series. **90c:34013**
Rivero Mendoza, Jesús *see* **Banaś, Józef, 90j:34020**
Ronto, N. I. *see* **Bilenko, V. I.; et al., 90d:34035**
Ross, Dieter K. Enveloping theorems for some linear and nonlinear differential equations. (Polish summary) **90i:34018**
Rubanik, V. P. *see* **Al'yankova, T. A.**, (Not in MR)
Rus, Ioan A. Picard mappings. I. (Romanian summary) **90i:34019**
Rusnák, Ján Method of successive approximations for a certain nonlinear third order boundary value problem. (Russian and Slovak summaries) **90m:34026**
Shinohara, Yoshitane On numerically integrable solutions of ordinary differential equations. (Not in MR)
Silva-Freire, Atila P. (*with* Hirata, Miguel H.) Approximate solutions to singular perturbation problems: the intermediate variable technique. **90j:34022**
Skorupski, Andrzej A. Detailed behavior of the phase-integral approximations at zeros and singularities of the square of the base function. **90b:34017**
— Efficient integration of the one-dimensional time independent wave equation for bound states and for wave propagation. **90b:34018**
Somersalo, Erkki One-dimensional electromagnetic inverse reflection problem: formulation as a Riemann-Hilbert problem and imaging of discontinuities. **90e:34018**
Tsapenko, N. E. New formulas for the approximate solution of a one-dimensional wave equation. **90j:34023**
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Vavilov, S. A. (*with* Ul'yanova, I. V.) The effect of measurement errors on the accuracy of the solution of a class of boundary value problems. (Russian) (*see* **90k:00017**)
— *see also* **Bozhenkova, I. V., 90i:34017**
Wagner, Eberhard Lösungsapproximation und Fehlerabschätzungen für ein unendliches System linearer, gewöhnlicher Differentialgleichungen mit konstanter Bandmatrix. (English and Russian summaries) [Solution approximation and error estimates for an infinite system of linear, ordinary differential equations with constant band matrix] **90m:34027**
Zhukova, G. S. Approximate construction of a general solution with prescribed accuracy. (Russian) **90a:34029**

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Abzianidze, D. V. A numerical method for calculating a mathematical model of the process of oblique broaching of a billet. (Russian) **90b:65132**
Adam, Gh. Piecewise analytical perturbation series methods for solving linear ordinary differential equations. I. General schemes for algorithm implementation. **90e:65093**
— Piecewise analytical perturbation series methods for solving linear ordinary differential equations. II. The radial Schrödinger equation. **90e:65094**
Amonov, A. A. *see* **Gruz, D. M., 90d:92030**
Atdaev, S. A two-sided approximation method for the generalized Cauchy problem. (Russian) **90d:34008**
Bagautdinov, G. N. *see* **Nikitin, O. L.; et al., 90e:65104**
Baĭnov, D. D. *see* **Khristova, S. G., 90e:34137**
Bauch, Hartmut (*with* Kimmel, W.) Solving ordinary initial value problems with guaranteed bounds. (*see* **90a:00025**)
Bravo Yuste, S. (*with* Díaz Bejarano, José) Extension and improvement to the Krylov-Bogoliubov methods using elliptic functions. **90k:34043**
Bulatov, R. A. The method of equivalent correspondence in nonlinear integro-differential equations. (Russian) **90h:45006**
Celia, Michael (*with* Herrera, Ismael) Solution of general ordinary differential equations using the algebraic theory approach. **90f:65129**
Cherepennikov, V. B. Approximate integration of a class of functional-differential equations. (Russian) **90d:34126**
Čiegis, Raimondas Numerical solution of a problem with a small parameter multiplying the highest derivative and with a nonlocal condition. **90f:65131**
Dančo, Jozef Method for numerical solving the Cauchy's problem in ordinary differential equations. (Russian and Slovak summaries) **90d:65134**
— One-step multiderivative methods for solving differential equations of the first order. (Russian and Slovak summaries) **90d:65135**
Díaz Bejarano, José *see* **Bravo Yuste, S., 90k:34043**
Dzhafarov, V. Ya. Approximation of the solutions of differential inclusions with convex right-hand side. (Russian) **90a:34033**
Dzhgarkava, D. T. Volterra-Stieltjes type equations with an integral with respect to a finitely additive set function. (Russian. English and Georgian summaries) **90e:34004**
Dzyadyk, V. K. ★ Аппроксимационные методы решения дифференциальных и интегральных уравнений. (Russian) [Approximation methods for solving differential and integral equations] **90b:65002**
El-Namoury, A. R. M. Numerical solution of a general Cauchy problem. (Arabic summary) **90e:65100**
Emel'yanov, K. V. Iterative methods for solving a nonlinear singularly perturbed problem. (Russian) **90a:34123**
Fraňková, Dana Continuous dependence on a parameter of solutions of generalized differential equations. (Russian and Czech summaries) **90k:34002**
Fujii, Masatomo (*with* Hayashi, Yuichi) An algorithm for a posteriori error bound estimates of the numerical solution for initial value problems by discrete variable methods. II. **90c:65093**
Glizer, V. Ya. An iterative method for solving a differential equation in a Banach space with a small parameter multiplying the derivative. (Russian) **90a:34136**
Gruz, D. M. (*with* Amonov, A. A.) Construction of solutions of a nonstationary system that describes the dynamics of competing communities. (Russian) **90d:92030**
Hájek, Otomar Subcritical manifolds. (*see* **90j:00016**)
Hayashi, Yuichi *see* **Fujii, Masatomo, 90c:65093**
Heikkilä, Seppo On fixed points through iteratively generated chains with applications to differential equations. **90d:47059**
Herrera, Ismael The algebraic theory approach for ordinary differential equations: highly accurate finite differences. **90f:65130**
— *see also* **Celia, Michael, 90f:65129**
Horiuchi, Kazuo *see* **Yamamura, Kiyotaka, 90d:65158**
Kasymov, K. A. Estimates for solutions of boundary value problems with initial jumps for second-order linear differential equations. (Russian. Kazakh summary) **90m:34034**
Kevorkian, J. (*with* Li, Y. P.) Explicit approximations for strictly nonlinear oscillators with slowly varying parameters with applications to free-electron lasers. **90h:78020**
Khristova, S. G. (*with* Baĭnov, D. D.) The method of the small parameter in the theory of differential-difference equations with impulse effect. **90e:34137**
Kimmel, W. *see* **Bauch, Hartmut**, (**90a:00025**)
Kosenko, I. I. Construction of phase trajectories of a Hamiltonian system in a neighborhood of an equilibrium position. (Russian) **90j:58048**
Koval', N. V. (*with* Semagina, È. P.) Stability of algorithms for solving systems of ordinary differential equations by the differential transformation method. (Russian. English summary) **90a:65161**
Latipov, Kh. R. (*with* Nosirov, F. U.) Construction of asymptotic solutions for some gyroscopic systems with delay. (Russian) **90a:34173**
Li, Y. P. *see* **Kevorkian, J., 90h:78020**
Litewska, Katarzyna (*with* Muszyński, Jerzy) An application of the finite element method to the initial value problem for a system of ordinary differential equations. **90e:65102**

Lobanova, N. I. *see* **Nikitin, O. L.; et al., 90e:65104**

Matalytskiĭ, M. A. On the solution of a differential-difference equation. (Russian) **90m:65163**

Murty, K. N. (*with* Srinivas, M. A. S.; Prasad, K. R.) Approximate analytical solutions to the three-species ecological system. **90m:92080**

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Nikitin, O. L. (*with* Bagautdinov, G. N.; Lobanova, N. I.; Suleĭmenov, Zh. S.) A method for the numerical integration of linear dynamical models of *n*th order. (Russian) **90e:65104**

Nosirov, F. U. *see* **Latipov, Kh. R., 90a:34173**

Nozdracheva, V. P. A priori estimation of the length of a closed trajectory on a plane. **90f:34016**

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Rabimov, A. S. (*with* Tabidze, G. S.) Two-point singular boundary value problems for systems of second-order ordinary differential equations. (Russian. English and Georgian summaries) **90m:34051**

Razzaghi, Mehdi *see* **Razzaghi, Mohsen, 90e:34028** *and* **90k:34013**

Razzaghi, Mohsen (*with* Razzaghi, Mehdi) Solution of linear two-point boundary value problems with time-varying coefficients via Taylor series. **90k:34013**

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Ronto, V. A. A numerical-analytic method for boundary value problems with a parameter. (Russian) (*see* **90d:00011**)

Rumyantsev, A. N. Application of systems of analytic calculations for the study of solvability and construction of an approximate solution of a class of boundary value problems. (Russian) **90e:34029**

Semagina, È. P. *see* **Koval′, N. V., 90a:65161**

Shahruz, Shahram M. (*with* Tan, C. A.) Response of linear slowly varying systems under external excitations. **90d:70050**

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— Convergence of semidiscrete approximations in the sense of Galerkin for quasilinear parabolic equations. (Russian) **90i:34097**

Sobolevskiĭ, P. E. *see* **Smagin, V. V., 90k:34079**

Srinivas, M. A. S. *see* **Murty, K. N.; et al., 90m:92080**

Suleĭmenov, Zh. S. *see* **Nikitin, O. L.; et al., 90e:65104**

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Thinh, N. X. Analytische Approximation der Lösung von singulären Differentialgleichungen. [Analytic approximation of the solution of singular differential equations] **90g:65113**

Totolici, Ioan On the approximation of the generalized solution of the mean axis equation by means of the finite element. (French and Romanian summaries) **90i:65158**

Uzelac, Zorica (*with* Surla, K.) A family of quadratic spline difference schemes for a singularly perturbed boundary value problem. **90m:65160**

Vaĭnikko, È. Local convergence of iterative-projective procedures for the construction of forced periodic oscillations. (Russian. English summary) **90h:65136**

Weissinger, Johannes A kind of difference methods for enclosing solutions of ordinary linear boundary value problems. (German summary) **90h:65138**

Yamamura, Kiyotaka (*with* Horiuchi, Kazuo) Accurate shooting methods for computing periodic solutions of nonlinear systems. **90d:65158**

Zhukova, G. S. Minimal smoothness of coefficients in the construction of approximate solutions. **90f:34096**

34A50 Numerical approximation of solutions {For numerical analysis, see 65Lxx.}

Brown, David L. (*with* Lorenz, Jens) A high-order method for stiff boundary value problems with turning points. **90a:34030**

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Garcia-Sala, D. *see* **Jódar, Lucas; et al., 90a:65158**

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Hervás, A. *see* **Jódar, Lucas; et al., 90a:65158**

Hirai, K. (*with* Wakamatsu, K.) Numerical analysis of bifurcations by continuation methods. **90c:58127**

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— (*with* Abou-Kandil, H.) A resolution method for Riccati differential systems coupled in their quadratic terms. **90a:65159**

Lin, Peng Cheng (*with* Guo, Wen) The uniformly convergent difference schemes for a singular perturbation problem of a selfadjoint ordinary differential equation. **90d:65148**

Nichols, N. K. On the numerical integration of a class of singular perturbation problems. **90h:65132**

Shen, Wen Xian Numerical analysis of the dynamical behavior of the equation of J-J type. **90j:58095**

Sit, William Y. On Goldman's algorithm for solving first-order multinomial autonomous systems. **90f:34025**

Trofimchuk, E. P. Investigation by a numerical-analytic method with improved convergence of solutions of a boundary value problem for a sampled-data system. (Russian) **90i:65153**

Wakamatsu, K. *see* **Hirai, K., 90c:58127**

Yu, Dong Won Stability functions of the partly-linearized Runge-Kutta method. **90c:65102**

34A55 Inverse problems

Andersson, Lars-Erik Inverse eigenvalue problems for a Sturm-Liouville equation in impedance form. **90g:34010**

Chadan, K. (*with* Musette, M.) Le problème inverse dans la constante de couplage. Intervalles infinis. (English summary) [The inverse problem in the coupling constant. The case of infinite intervals] **90c:34014**

— (*with* Musette, M.) Inverse problems in the coupling constant for the Schrödinger equation. **90e:34019**

Denisov, A. M. Inverse problems for a nonlinear ordinary differential equation. **90m:34028**

— Inverse problems for nonlinear ordinary differential equations. **90k:34008**

Fried, H. M. Ordered exponentials and differential equations. **90a:34031**

Gasymov, M. G. (*with* Guseĭnov, G. Sh.) Some uniqueness theorems in inverse problems of spectral analysis for Sturm-Liouville operators in the case of the Weyl limit circle. **90e:34020**

Grinberg, N. I. The inverse scattering problem for the wave equation on a line with discontinuous rate. **90b:34019**

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Hald, Ole H. (*with* McLaughlin, Joyce R.) Inverse problems using nodal position data—uniqueness results, algorithms and bounds. **90m:34029**

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Kobayashi, Mei An algorithm for discontinuous inverse Sturm-Liouville problems with symmetric potentials. **90f:34021**

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Lin, Yuan Qu (*with* Qian, Min; Zhang, Qing^2) Inverse scattering problem for one-dimensional Schrödinger operators related to the general Stark effect. **90d:34036**

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Arutyunyan, T. N. Asymptotics of the Weyl-Titchmarsh function and the inverse problem for the Dirac system. (Russian. English and Armenian summaries) **90k:34019**

Barcilon, Victor Sufficient conditions for the solution of the inverse vibrating beam problem. **90i:73036**

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— (*with* Coifman, R.) Linear spectral problems, nonlinear equations and the $\overline{\partial}$-method. **90f:35171**

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Chakravarty, N. K. (*with* Acharyya, Sudip Kumar) On an extension of the theorem of V. A. Ambarzumyan. **90a:34054**

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nichini, G. (*with* Zecca, Pietro) Existence of bounded solutions for set-valued equations in Banach spaces. (Italian summary) **90g:34012**

sarin, E. A. (*with* Izmaĭlov, R. N.) Determination of the sliding velocity on a discontinuity surface. **90m:34030**

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— (*with* Colombo, Giovanni) Generalized Baire category and differential inclusions in Banach spaces. **90d:34039**

— On the qualitative theory of lower semicontinuous differential inclusions. **90e:34022**

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— Multivalued differential equations with usc right-hand side. (*see* **90j:00016**)

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Flytzanis, Elias (*with* Papageorgiou, Nikolaos S.) Existence of monotone and slow solutions for differential inclusions. **90j:34024**

Frankowska, Halina Estimations a priori pour les inclusions différentielles opérationnelles. (English summary) [A priori estimates for operational differential inclusions] **90e:34023**

Guseĭnov, Kh. G. (*with* Ushakov, V. N.) Strongly and weakly invariant sets with respect to a differential inclusion. **90i:34021**

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Kravvaritis, D. (*with* Papageorgiou, Nikolaos S.) Multivalued perturbations of subdifferential type evolution equations in Hilbert spaces. **90a:34034**

— (*with* Papageorgiou, Nikolaos S.) A random nonlinear multivalued evolution equation in Hilbert space. **90m:34032**

Molchanov, A. P. (*with* Pyatnitskiĭ, E. S.) Criteria of asymptotic stability of differential and difference inclusions encountered in control theory. **90g:34014**

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Naselli Ricceri, Ornella A continuous dependence theorem for differential inclusions in Banach spaces. (Italian summary) **90b:34020**

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— Functional-differential inclusions in Banach spaces with nonconvex right-hand side. **90h:34020**

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34A99 None of the above, but in this section

Bobylev, V. N. A possibilistic argument for irreversibility. (Not in MR)

Kacewicz, Bolesław Z. How useful is nonadaptive information for ordinary differential equations? **90m:34033**

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Wu, Yi *see* **Ouyang, He, 90i:34024**

Items with secondary classifications in 34A99

Bayer, D. A. (*with* Lagarias, J. C.) The nonlinear geometry of linear programming. I. Affine and projective scaling trajectories. **90h:90098a**

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Cannon, John R. (*with* Koebbe, Joseph V.; Schmidt, Rita M.) The determination of rate constants from known linear combinations of concentrations in a chemical reaction. **90j:80019**

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Zubov, V. I. Systems of differential equations with two singular points of regular type. **90i:35069**

34Bxx Boundary value problems

Agarwal, Ravi Prakash ★ Boundary value problems for higher order differential equations. **90j:34025**

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(Klokov, Yu. A.) *see* **Theory and numerical methods for solving boundary value problems of differential equations**, (Not in MR)

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Theory and Numerical Methods for Solving Boundary Value Problems of Differential Equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)

Jūrmala ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)

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34B05 Linear equations

Adomian, George A. (*with* Elrod, M.; Rach, R.) A new approach to boundary value equations and application to a generalization of Airy's equation. **90d:34043**

Ad″yutov, M. M. New boundary value problems of ordinary differential equations and current nonlinear equations in mathematical physics. (Russian) **90e:34027**

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Kathirkamanayagan, M. (*with* Ladde, G. S.) Large scale singularly perturbed boundary value problems. **90i:34026**

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Razzaghi, Mohsen (*with* Razzaghi, Mehdi) Solution of linear two-point boundary value problems with time-varying coefficients via Taylor series. **90k:34013**

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Tahai, Alireza *see* **Razzaghi, Mohsen; et al.**, (Not in MR)

Vel′ov, V. M. *see* **Baĭnov, D. D.; et al., 90h:34022**

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Andreev, A. N. (*with* Nemirovskiĭ, Yu. V.) Numerical analysis of the stress-deformed state of layered shells of revolution by the method of invariant imbedding. (Russian. Armenian summary) **90j:73059**

Anyanwu, Donatus Uzodinma Uniform asymptotic solutions of boundary and eigenvalue problems for a second-order ordinary differential equation with singular and turning points. **90c:34057**

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Georgescu, Adelina (*with* Oprea, Iuliana) The bifurcation curve of the characteristic equation provides the bifurcation point of the neutral curve of some elastic stability. **90i:73061**

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Huang, Bing Sheng Green functions for boundary value problems for linear nonhomogeneous ordinary differential equations. (Chinese. English summary) **90a:34062**

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multiple turning points. **90a:34128**
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an Loon, P. M. ★ Continuous decoupling transformations for linear boundary value problems. **90a:65178**
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Maksimov, V. P. (*with* Rakhmatullina, L. F.) Some properties of the Green matrix. (Russian) **90h:34044**
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Navarro, E. *see* **Jódar, Lucas, 90e:15014**
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Oprea, Iuliana *see* **Georgescu, Adelina, 90i:73061**
Ostrovetskiĭ, L. A. *see* **Dzyadyk, V. K., 90b:34016**
Paris, Richard B. *see* **Wood, Alastair D., 90b:34086**
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34Cxx Qualitative theory

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34C05 Location of integral curves, singular points, limit cycles

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Stensby, John False lock and bifurcation in Costas loops. **90e:94051**
Stewart, Ian Stability of periodic solutions in symmetric Hopf bifurcation. **90c:58133**
van Straten, Duco A note on the number of periodic orbits near a resonant equilibrium point. **90f:58073**
Svobodny, Thomas P. (*with* Russell, D. L.) Phase identification in linear time-periodic systems. **90b:93031**
Szulkin, Andrzej Morse theory and existence of periodic solutions of convex Hamiltonian systems. (French summary) **90f:58074**
Tang, Bao Rong On the existence of periodic solutions in the limited explodator model for the Belousov-Zhabotinskiĭ reaction. **90m:92111**
Terziyan, Stepan A. A variational approach to nonresonance problems for semilinear equations in a Hilbert space. **90i:58020**
Thieme, Horst R. (*with* Heesterbeek, J. A. P.) How to estimate the efficacy of periodic control of an infectious plant disease. **90d:92027**
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Toland, J. F. Periodic solutions for a class of Lorenz-Lagrangian systems. (French summary) **90d:58132**
Tomita, Koji (*with* Hata, Hiroki; Horita, Takehiko; Mori, Hazime; Morita, Terumitsu) Classification of collisions of chaotic attractors with unstable periodic orbits in terms of the q-phase transitions. **90b:58192**
Troy, William C. The existence of steady solutions of the Kuramoto-Sivashinsky equation. **90m:58175**
Tverskoĭ, M. B. *see* **Gabov, S. A., 90h:76024**
Vainikko, È. Local convergence of iterative-projective procedures for the construction of forced periodic oscillations. (Russian. English summary) **90h:65136**
Vance, R. R. (*with* Coddington, E. A.) A nonautonomous model of population growth. **90j:92028**
Vidossich, Giovanni On the solvability of boundary value problems for higher order ordinary differential equations. **90i:34028**
Vilela Mendes, R. Deformation stability of periodic and quasiperiodic motion in dissipative systems. **90e:58138**
Visentin, F. *see* **Bernfeld, S. R.; et al., 90j:34069**
Vrabie, Ioan I. Periodic solutions for nonlinear evolution equations in a Banach space. **90k:34080**
Wang, Ke^1 Existence of periodic solutions to functional-differential equations. (Chinese) **90j:34103**
— On the existence of limit cycles of the equation $x' = h(y) - F(x),\ y' = -g(x)$. **90d:34060**
Wang, Mu Qiu *see* **Zhang, Yi^2; et al., 90a:34113**
Webb, Jeffrey R. L. (*with* Welsh, Stewart C.) Existence and uniqueness of initial value problems for a class of second-order differential equations. **90m:34005**
Weiss, Howard N. *see* **Knieper, Gerhard, 90e:58128**
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Wen, Li Zhi Existence of periodic solutions to a class of differential-difference equations. (Chinese) **90j:34104**
Xu, Jian-Ming *see* **Aftabizadeh, A. R.; et al., 90k:47123**
Yamamoto, Minoru *see* **Hirano, Masaki, 90b:34005**
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Zehnder, Eduard The Arnolʹd conjecture for fixed points of symplectic mappings and periodic solutions of Hamiltonian systems. **90g:58040**
Zhang, Jin Yan *see* **Qian, Min; et al., 90m:58174**
Zhang, Shang Tai Asymptotic equilibrium and periodic boundary value problems for first-order differential equations. (Chinese. English summary) **90c:34010**
Zhang, Yi^1 *see* **Zhang, Yi^2; et al., 90a:34113**
Zhang, Yi^2 (*with* Zhang, Yi^1; Wang, Mu Qiu) The stability and steady-state oscillation of large-scale linear systems with time-varying coefficients under structural perturbations. (Chinese. English summary) **90a:34113**
Zhao, Xiao Hua *see* **Li, Ji Bin, 90k:58071**
Zheng, Zu Xiu (*with* Lin, Yi Zhong) The bounded solution and periodic solution of a class of differential-difference equations of advanced type. **90k:34097**
Zhuravlev, V. P. *see* **Bozhko, V. O., 90d:34115**
Zubritskaya, A. L. *see* **Gulyaev, V. I.; et al., 90j:58111**

34C27 Almost-periodic solutions

Akhmetov, M. U. (*with* Perestyuk, N. A.) Almost periodic solutions of nonlinear sampled-data systems. **90e:34075**
Arolska-Hekimova, Mariya At. (*with* Baĭnov, D. D.) Almost periodic solutions of singularly perturbed systems of differential equations with impulse effect. (Italian summary) **90d:34081**
— (*with* Baĭnov, D. D.) Almost periodic solutions of singularly perturbed systems of differential equations with impulse effect. **90h:34059**
Baĭnov, D. D. *see* **Arolska-Hekimova, Mariya At., 90d:34081** *and* **90h:34059**
Ballotti, Michael E. (*with* Goldstein, Jerome A.; Parrott, Mary E.) Almost periodic solutions of evolution equations. **90c:34048**
Blavatsʹka, L. Ī. *see* **Līsevich, L. M.**, (Not in MR)
Bochkarëv, P. M. On the almost-periodicity of solutions of an equation. (Russian) (*see* **90h:00010**)
Dontvi, Isaak Kvame Asymptotically almost periodic solutions of linear systems of differential equations with generalized perturbations. (Russian) **90b:34063**
Fink, A. M. Separated solutions of almost periodic differential equations. **90k:34051**
Glavan, V. A. An analytic normal form of linear quasiperiodic systems of triangular type. (Russian) **90h:34060**
— *see also* **Samoĭlenko, A. M., 90a:34089**
Goldstein, Jerome A. *see* **Ballotti, Michael E.; et al., 90c:34048**
Li, Zhi Xiang Application of the Lyapunov method to the study of almost periodic systems. (Chinese) (Not in MR)
Līsevich, L. M. Existence of an almost periodic solution of a second-order linear differential equation. (Ukrainian. Russian summary) (Not in MR)
— (*with* Blavatsʹka, L. Ī.) Existence of an almost periodic solution of a quasilinear system of ordinary differential equations with a right-hand S^p-almost periodic side. (Ukrainian. Russian summary) (Not in MR)
— A sufficient condition for the existence of a bounded and almost periodic solution of a second-order linear differential equation. (Ukrainian. Russian summary) (Not in MR)
Manfredi, Bianca Almost periodic constrained oscillations in almost periodic dynamical systems. (Italian) **90d:34082**
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Perestyuk, N. A. *see* **Akhmetov, M. U., 90e:34075**
Pronʹkin, V. S. The disappearance of the reducibility property in systems with quasiperiodic coefficients. (Russian) **90d:34083**
Samoĭlenko, A. M. (*with* Glavan, V. A.) Behavior of solutions of linear quasiperiodic systems near resonances. **90a:34089**
Wang, Quan Yi The existence of almost periodic solutions of almost periodic differential equation with two time variables. **90a:34090**
Zhao, Jia Xiang Separability and the existence of recurrent solutions and almost periodic solutions. (Chinese. English summary) **90i:34069**

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Aitdads, E. (*with* Arino, O.) A nonlinear delay differential equation whose solutions are asymptotically sums of periodic functions. **90f:34123**
Akhmetov, M. U. *see* **Samoĭlenko, A. M.; et al., 90m:34109**
Arino, O. *see* **Aitdads, E., 90f:34123**
Blinov, I. N. Flickering systems. **90a:34017**
Demenchuk, A. K. *see* **Grudo, È. I., 90d:34080**
Grudo, È. I. (*with* Demenchuk, A. K.) Periodic and almost periodic solutions of ordinary differential systems. (Russian) **90d:34080**
— On the theory of a class of linear integro-differential equations. **90h:45007**
Iftode, Vasile Periodic and almost-periodic solutions for a nonlinear operator equation in Hilbert space. **90a:47158**
Ignatʹev, A. O. Stability of almost periodic systems with respect to some of the variables. (Russian) (Not in MR)
Inoue, Masakazu A method analyzing the bifurcation of almost-periodic oscillation and generation of chaos in a parametric excitation circuit. **90b:34064**
Lim, Chjan Quasi-periodic dynamics of desingularized vortex models. **90m:76024**
Lin, Zhen Sheng Spectrums of almost periodic linear systems. **90i:34040**
Liu, Bin Boundedness for solutions of nonlinear Hill's equations with periodic forcing terms via Moser's twist theorem. **90k:34050**

Lizana, Marcos Bounded, almost-periodic and periodic solutions of certain singularly perturbed systems with delay. **90e:34138**

Makarov, A. P. (*with* Rodionov, V. G.) Resonances in a system of linear differential equations with perturbed parametric excitation frequency. (Russian) **90j:70031**

Palmer, Kenneth J. (*with* Stoffer, Daniel) Chaos in almost periodic systems. (German summary) **90k:58138**

Perestyuk, N. A. *see* **Samoĭlenko, A. M.; et al., 90m:34109**

Pilipenko, I. A. Estimates for differential operators on classes of almost periodic functions. (Russian) **90d:26027**

Rodionov, V. G. *see* **Makarov, A. P., 90j:70031**

Ruzaev, V. P. On the bifurcation of an invariant torus $T^m \to T^{m+1}$. (Russian) **90i:58143**

Samoĭlenko, A. M. (*with* Perestyuk, N. A.; Akhmetov, M. U.) The comparison method for systems of differential equations with impulse action. (Russian) **90m:34109**

Sari, Tewfik Fonctions presque-périodiques. [Almost periodic functions] (*see* **90j:03116**)

Satyanarayan Rao, Aribindi On the successive integration of Stepanov-almost periodic functions. **90g:34066**

– On first-order differential operators with Bohr-Neugebauer type property. **90i:34091**

Stoffer, Daniel *see* **Palmer, Kenneth J., 90k:58138**

Tsukamoto, Ichiro On a full spectrum condition for 2-dimensional linear quasi-periodic systems. **90c:34051**

Zaidman, Samuel Almost-periodic solutions of differential equations with diagonal operators. (French summary) **90a:34134**

– Existence of asymptotically almost-periodic and of almost-automorphic solutions for some classes of abstract differential equations. (French summary) **90i:34093**

– Existence of almost-periodic ultra-weak solutions to the equation $u'(t) = a(t)Au(t) + f(t)$ in Hilbert spaces. **90j:34089**

Zinchenko, I. L. A theorem on the convergence of complex analytic systems. (Russian) **90i:34008**

34C28 Other types of "recurrent" solutions

Items with secondary classifications in 34C28

Aranson, S. Kh. (*with* Zhuzhoma, E. V.) On the C^r closing lemma on surfaces. **90d:58135**

Erbe, L. H. *see* **Palamides, P. K., 90j:34033**

Palamides, P. K. (*with* Erbe, L. H.) Semiperiodic boundary value problems. **90j:34033**

Zaidman, Samuel Existence of almost-periodic ultra-weak solutions to the equation $u'(t) = a(t)Au(t) + f(t)$ in Hilbert spaces. **90j:34089**

Zhao, Jia Xiang Separability and the existence of recurrent solutions and almost periodic solutions. (Chinese. English summary) **90i:34069**

Zhuzhoma, E. V. *see* **Aranson, S. Kh., 90d:58135**

34C29 Averaging method [see also 47H10]

Astaf'eva, M. N. On the justification of the averaging method for multifrequency oscillatory systems with impulse action. (Not in MR)

Belikov, S. A. On the averaging of systems that contain strongly oscillating functions of phase variables. **90j:34058**

Dodson, M. M. (*with* Rynne, B. P.; Vickers, J. A. G.) Averaging in multifrequency systems. **90d:34084**

Harthong, J. La méthode de la moyennisation. [The averaging method] (*see* **90j:03116**)

Inoue, Masakazu A method analyzing the bifurcation of almost-periodic oscillation and generation of chaos in a parametric excitation circuit. **90b:34064**

Krasnosel'skiĭ, M. A. (*with* Pokrovskiĭ, A. V.) The averaging principle for systems with hysteresis. (Russian) **90a:34091**

Kuksin, S. B. An averaging theorem for distributed conservative systems and its application to the von Kármán equations. (Russian) **90f:34073**

Latipov, Kh. R. (*with* Nosirov, F. U.) ★ О влиянии запаздывания на нелинейные системы. (Russian) [The effect of delay on nonlinear systems] **90f:34074**

Magomedov, A. R. Application of the averaging method for differential equations with maxima. (Russian. English and Azerbaijani summaries) **90j:34059**

Medzhitov, M. A special case of averaging. (Russian) **90c:34049**

Nguyễn Văn Đạo An asymptotic method for studying higher-order quasilinear differential equations. (Russian) **90a:34092**

Nosirov, F. U. *see* **Latipov, Kh. R., 90f:34074**

Petrishin, R. I. *see* **Samoĭlenko, A. M., 90h:34061**

Plotnikov, V. A. Averaging of equations of controllable motion. (Russian) **90b:34065**

Pokrovskii, A. N. Averaging in a system of impulsively connected subsystems that undergo discontinuous oscillations. (Russian) **90k:34052**

Pokrovskiĭ, A. V. *see* **Krasnosel'skiĭ, M. A., 90a:34091**

Rynne, B. P. *see* **Dodson, M. M.; et al., 90d:34084**

Samoĭlenko, A. M. Mitropol'skiĭ's methods for the asymptotic integration of systems in nonlinear mechanics. (Russian) **90b:34066**

– (*with* Petrishin, R. I.) The averaging method in some boundary value problems. **90h:34061**

Saribaev, M. Justification of the averaging method for two-frequency systems on an infinite time interval. (Ukrainian. Russian summary) **90d:34085**

Skorokhod, A. V. Dynamical systems that are subject to the influence of "rapid" dynamical systems with feedback. (Russian) **90b:34067**

Verhulst, F. A note on higher order averaging. **90d:34086**

Vickers, J. A. G. *see* **Dodson, M. M.; et al., 90d:34084**

Zverkova, T. S. Justification of the averaging method in the case of breakdown of the Lipschitz condition. (Russian. English and Bulgarian summaries) (Not in MR)

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Akulenko, L. D. Investigation of quasilinear oscillations of mechanical systems with distributed and lumped parameters. **90b:73024**

Anisimov, V. V. (*with* Yurachkovskiĭ, A. P.) The averaging principle for stochastic difference equations. **90j:93102**

Appell, Jürgen (*with* Diallo, O. W.; Zabreĭko, P. P.) On linear integro-differential equations of Barbashin type in spaces of continuous and measurable functions. **90a:45007**

Astaf'eva, M. N. On the justification of the averaging method in systems with instantaneous change in the case of resonance. (Russian) **90k:70016**

Baĭnov, D. D. (*with* Milusheva, S. D.) The method of partially multiplicative averaging in the problems of terminal control. **90g:93049**

Bigun, Ya. I. (*with* Fodchuk, V. I.) Investigation of a boundary value problem for functional-differential equations by the averaging method. (Russian) **90e:34130**

Carrillo Calvet, Humberto The averaging method and the persistence of attractors. **90e:58092**

Chow, Shui-Nee (*with* Lü, Ke Ning) Center unstable manifolds in quasiperiodic and averaging systems. **90d:34113**

Diallo, O. W. *see* **Appell, Jürgen; et al., 90a:45007**

Fodchuk, V. I. *see* **Bigun, Ya. I., 90e:34130**

Gelig, A. Kh. (*with* L'yanova, N. I.) A circular criterion for the stability of nonlinear sampled-data systems with a new kind of quadratic relation. **90c:93079**

Grace, S. R. Oscillation theorems for second order nonlinear differential equations with damping. **90k:34034**

Gul'ka, S. S. Averaging in systems of integro-differential equations with impulse action. (Russian) **90g:45017**

Ivanyuk, N. V. Application of the averaging method for systems of integro-differential equations with multivalued impulse action. (Russian) (*see* **90d:00011**)

Klimchuk, S. S. Averaging differential inclusions with an unbounded right-hand side. (Not in MR)

Kogan, M. M. (*with* Neĭmark, Yu. I.) A study of identifiability in adaptive control systems by the averaging method. **90c:93102**

— *see also* **Neĭmark, Yu. I.; et al., 90a:39008**

Kurbatov, V. G. Efficient estimation in the averaging principle. **90j:34072**

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Lopatin, A. K. *see* **Mitropol'skiĭ, Yu. A., 90d:58002**

Lü, Ke Ning *see* **Chow, Shui-Nee, 90d:34113**

Łuczka, Jerzy On the averaging method in the weak-coupling theory of quantum open systems. **90e:82019**

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— *see also* **Kogan, M. M., 90c:93102**

Plotnikov, A. V. Averaging differential inclusions with the Hukuhara derivative. **90d:34041**

Plotnikov, V. A. (*with* Rudyk, O. G.) A scheme for averaging integro-differential inclusions. (Russian) **90j:45020**

— (*with* Rudyk, O. G.) An averaging scheme in integro-differential equations. **90m:45018**

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Rudyk, O. G. *see* **Plotnikov, V. A., 90j:45020** *and* **90m:45018**

Samoĭlenko, A. M. (*with* Sukhomlin, A. A.) The averaging method for difference multifrequency systems. (Russian. English summary) **90m:39010**

— (*with* Stanzhitskiĭ, A. N.) Fluctuations in an averaging scheme for differential equations with random impulse action. **90h:34095**

Schwabik, Štefan Generalized differential equations: special results. (Russian summary) **90f:34003**

Stanzhitskiĭ, A. N. Averaging in stochastic systems with random impulse action. (Ukrainian. Russian summary) **90h:60059**

— *see also* **Samoĭlenko, A. M., 90h:34095**

Sukhomlin, A. A. The averaging method for difference multifrequency oscillatory systems. (Russian) **90g:39011**

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Tsar'kov, E. F. ★ Случайные возмущения дифференциально-функциональных уравнений. (Russian) [Random perturbations of functional-differential equations] **90m:34164**

Yatsenko, T. P. Asymptotic investigation of a linear-quadratic control problem. **90d:93039**

Yurachkovskiĭ, A. P. *see* **Anisimov, V. V., 90j:93102**

Zabreĭko, P. P. *see* **Appell, Jürgen; et al., 90a:45007**

34C30 Manifolds of solutions

Baĭnov, D. D. (*with* Kostadinov, S. I.; Nguyễn Hồng Thái; Zabreĭko, P. P.) Existence of integral manifolds for impulsive differential equations in a Banach space. **90i:34070**

Baris, Ya. S. A method of constructing approximate integral manifolds. **90b:34068**

Gurtovnik, A. S. On a study of integral manifolds of quasilinear systems. (Russian) **90f:34075**

Hájek, Otomar Subcritical manifolds. (*see* **90j:00016**)

Kayumov, D. Kh. (*with* Sattarov, F. Kh.) Two-dimensional limit manifolds of a three-dimensional homogeneous system of differential equations. (Russian) **90e:34076**

Knobloch, H. W. A method for construction of invariant manifolds. (Russian summary) **90d:34087**

— Dichotomy and integral manifolds. II. Proof of the continuation principle. **90k:34053**

Kostadinov, S. I. *see* **Baĭnov, D. D.; et al., 90i:34070**

Kurbanshoev, S. Z. *see* **Valeev, K. G., 90b:34070**

Nguyễn Hồng Thái *see* **Baĭnov, D. D.; et al., 90i:34070**

Qin, Yuan Xun Recent progress in the theory of integral surfaces defined by ordinary differential equations. (Chinese. English summary) **90a:34093**

— New developments in the theory of integral surfaces defined by ordinary differential equations. (Chinese) (Not in MR)

Reiziņš, Linards Discrimination problems in neighborhoods of exceptional cones. (Russian) **90b:34069**

Sattarov, F. Kh. *see* **Kayumov, D. Kh., 90e:34076**

Valeev, K. G. (*with* Kurbanshoev, S. Z.) Existence and properties of optimal integral manifolds. (Russian. Tajiki summary) **90b:34070**

Voskresenskiĭ, E. V. The asymptotic behavior and a homeomorphism of solutions of differential equations on manifolds. **90e:34077**

Zabreĭko, P. P. *see* **Baĭnov, D. D.; et al., 90i:34070**

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Baris, Ya. S. (*with* Lykova, O. B.) Application of approximate integral manifolds in stability theory. (Russian) **90m:34115**

— (*with* Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) **90m:34097**

Battelli, Flaviano (*with* Lazzari, Claudio) Asymptotic expansions obtained by a center manifold theorem. (Italian summary) **90b:34081**

Chernyshov, K. I. *see* **Sobolev, V. A., 90d:34006**

Chow, Shui-Nee (*with* Lü, Ke Ning) C^k centre unstable manifolds. **90a:58148**

Grod, I. N. On the existence of an invariant manifold for some irregularly perturbed systems. (Russian) **90m:58182**

Grudo, È. I. Structure of the solutions of an autonomous Pfaffian system with two pure imaginary roots of the characteristic equation. **90i:58005**

Hirsch, Morris W. Systems of differential equations which are competitive or cooperative. III. Competing species. **90d:58070**

Kalitin, B. S. Stability in the presence of an invariant surface. (Russian) **90i:58090**

Kolesov, A. Yu. (*with* Mishchenko, E. F.) Existence and stability of a relaxation torus. (Not in MR)

Lazzari, Claudio *see* **Battelli, Flaviano, 90b:34081**

Lü, Ke Ning *see* **Chow, Shui-Nee, 90a:58148**

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Mawhin, J. (*with* Willem, M.) ★ Critical point theory and Hamiltonian systems. **90e:58016**

Mishchenko, E. F. *see* **Kolesov, A. Yu.**, (Not in MR)

Muyassarov, A. *see* **Valeev, K. G., 90d:58140**

Shpakovich, O. V. Smoothness with respect to the parameter of an exponentially dichotomous invariant torus of a quasilinear system of differential equations. (Russian) **90k:34061**

Sobolev, V. A. (*with* Chernyshov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. **90d:34006**

Tokarev, S. P. C^∞-equivalence of systems of differential equations with exponential asymptotic behavior of the solutions in a neighborhood of an invariant manifold. (Russian) **90b:58141**

Valeev, K. G. (*with* Muyassarov, A.) Construction of a 0-manifold of solutions of a nonlinear dynamical system. (Russian) **90d:58140**

Willem, M. *see* **Mawhin, J., 90e:58016**

34C35 Dynamical systems [see also 54H20, 58Fxx, 70–XX]

Artykov, A. R. (*with* Rabinkov, G. A.) Analytic representation of solutions of a three-dimensional autonomous system in a neighborhood of a moving singularity. (Russian) **90b:34071**

Bagrova, A. I. (*with* Matvienko, A. M.) Investigation of thermodynamic processes by means of Lyapunov functionals. (Russian) **90e:34078**

Bobrowski, Dobiesław Distribution of solution of discrete time dynamical system. **90h:34062**

Dresselhaus, E. (*with* Tabor, M.) The persistence of strain in dynamical systems. **90m:34095**

Èshmuradov, K. On the character of the boundaries of the cells of a three-dimensional dynamical system. (Russian) **90c:34050**

Fonda, Alessandro Uniformly persistent semidynamical systems. **90a:34094**

Freedman, H. I. (*with* Moson, P.) Persistence definitions and their connections. **90k:34054**

Kertész, V. Notes on a theorem of M. Farkas. **90a:34095**

Kozlov, Valeriĭ V. Polynomial integrals of dynamical systems with one-and-a-half degrees of freedom. **90j:34060**

Liao, Xiao Xin (*with* Wu, Wei Hua) Necessary and sufficient conditions for stability with respect to part of the variables in linear dynamical systems. (Chinese) (Not in MR)

Matveev, N. M. (*with* Stolyarov, V. V.) Closed trajectories of a dynamical system. (Russian) (*see* **90i:00001**)

Matvienko, A. M. *see* **Bagrova, A. I., 90e:34078**

Moson, P. *see* **Freedman, H. I., 90k:34054**

Mrozek, Marian Leray functor and cohomological Conley index for discrete dynamical systems. **90f:34076**

Rabinkov, G. A. *see* **Artykov, A. R., 90b:34071**

Reinfelds, Andrejs A reduction theorem for extensions of dynamical systems. (Russian) **90m:34096**

Stolyarov, V. V. *see* **Matveev, N. M.**, (**90i:00001**)

Tabor, M. *see* **Dresselhaus, E., 90m:34095**

Wu, Wei Hua *see* **Liao, Xiao Xin**, (Not in MR)

Zanolin, Fabio Some remarks about persistence for differential systems and processes. **90f:34077**

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Afraĭmovich, V. S. Attractors. **90j:58074**

Anosov, D. V. On infinite curves on a torus and on closed surfaces of negative Euler characteristic. (Russian) **90g:58109**

Bazykin, A. D. (*with* Kuznetsov, Yuriĭ Aleksandrovich; Khibnik, A. I.) ★ Портреты бифуркаций. (Russian) [Bifurcation portraits] **90i:58135**

Beloqui, Jorge A. A complete set of invariants for a quasi-transversal Hopf bifurcation. **90k:58147**

Bertozzi, Andrea Louise Heteroclinic orbits and chaotic dynamics in planar fluid flows. **90c:58106**

Bunimovich, L. A. (*with* Sinaĭ, Ya. G.) Spacetime chaos in coupled map lattices. **90d:58073**

Cheban, D. N. Some problems in the theory of dissipative dynamical systems. I. (Russian) **90k:54054**

Chow, Shui-Nee (*with* Lin, Xiao-Biao; Palmer, Kenneth J.) A shadowing lemma with applications to semilinear parabolic equations. **90d:58090**

Cicogna, G. (*with* Gaeta, Giuseppe) Bifurcations, symmetries and maximal isotropy subgroups. (Italian and Russian summaries) **90f:58127**

Conley, Charles C. The gradient structure of a flow. I. **90e:58136**

Coven, Ethan M. (*with* Kan, Ittai; Yorke, James A.) Pseudo-orbit shadowing in the family of tent maps. **90b:58236**

Cushing, J. M. A competition model for size-structured species. **90e:92078**

Donnay, Victor J. Geodesic flow on the two-sphere. II. Ergodicity. **90e:58127b**

— Geodesic flow on the two-sphere. I. Positive measure entropy. **90e:58127a**

Érdi, P. (*with* Tóth, J.) ★ Mathematical models of chemical reactions. **90h:92037**

Erëmenko, A. È. Some functional equations connected with the iteration of rational functions. (Russian) **90m:30030**

Flashner, H. (*with* Guttalu, R. S.) A computational approach for studying domains of attraction for nonlinear systems. **90c:58104**

Franzosa, Robert D. The continuation theory for Morse decompositions and connection matrices. **90g:58111**

Fried, David Counting circles. **90c:58157**

Gaeta, Giuseppe *see* **Cicogna, G., 90f:58127**

Garay, Barnabas M. Uniform persistence and chain recurrence. **90h:54049**

Gasull, Armengol (*with* Llibre, J.) On the nonsingular quadratic differential equations in the plane. **90f:58141**

Grebogi, Celso *see* **Ott, Edward; et al., 90b:58185**

Greenberg, Peter (*with* Porter, Michael) A generalization of geodesic flow. **90c:58141**

Gu, Keqin *see* **Tongue, Benson H., 90a:54027**

Guttalu, R. S. *see* **Flashner, H., 90c:58104**

Hale, Jack K. (*with* Waltman, Paul) Persistence in infinite-dimensional systems. **90b:58156**

Han, Mao An The rotation number and direction of a continuous flow on the torus. **90c:58158**

— A geometric property of vector fields on $\mathbf{R}^n$. (Chinese summary) **90k:58202**

Hayakawa, Eijirou Regularization of vector fields by Easton type surgery. **90a:58150**

Hiraide, K. Nonexistence of positively expansive maps on compact connected manifolds with boundary. **90m:54051**

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Hmissi, Mohamed Cones de potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] **90k:31010**

Izé, A. F. An infinite-dimensional extension of theorems of Hartman and Wintner on monotone positive solutions of ordinary differential equations. **90m:34128**

Kalitin, B. S. On a problem of Florio and Seibert. (Russian) **90c:54025**

Kan, Ittai *see* **Coven, Ethan M.; et al., 90b:58236**

Kawai, Takahiro Systems of linear differential equations of infinite order: an aspect of infinite analysis. **90j:58139**

Khibnik, A. I. *see* **Bazykin, A. D.; et al., 90i:58135**

Kirchgraber, U. A dynamical system approach to some ODE codes. (Russian summary) **90f:65114**

Kozlov, Valeriĭ V. On the existence of an integral invariant of a smooth dynamic system. **90c:58045**

— Symmetry groups of dynamical systems. **90g:58116**

Kuznetsov, Yuriĭ Aleksandrovich *see* **Bazykin, A. D.; et al., 90i:58135**

Landa, P. S. *see* **Neĭmark, Yu. I., 90g:58080**

Letavin, M. I. On the domain of asymptotic stability of the invariant set of a dynamical system that does not possess the property of uniform change of distance. **90d:34114**

Liao, Shan Tao Perturbations of stable manifolds. (Chinese. English summary) **90b:58218a**

— On perturbations of stable manifolds (continued). (Chinese. English summary) **90b:58218b**

Lin, Xiao-Biao *see* **Chow, Shui-Nee; et al., 90d:58090**

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Medveď, Milan ★ Dynamické systémy. (Slovak) [Dynamical systems] **90k:58057**

Millionshchikov, V. M. A generic property of linear systems of ordinary differential equations. (Russian) **90d:58071**

— A generic property of Lyapunov exponents of linear systems of differential equations. (Russian. Kazakh summary) **90d:34096**

— A generic property of Lyapunov exponents of linear systems of differential equations of different classes. (Russian. Kazakh summary) **90d:34095**

(**Moeckel, R.**) *see* **Conley, Charles C., 90e:58136**

Neĭmark, Yu. I. (*with* Landa, P. S.) ★ Стохастические и хаотические колебания. (Russian) [Stochastic and chaotic oscillations] **90g:58080**

Ott, Edward (*with* Grebogi, Celso; Yorke, James A.) Theory of first order phase transitions for chaotic attractors of nonlinear dynamical systems. **90b:58185**

Palmer, Kenneth J. *see* **Chow, Shui-Nee; et al., 90d:58090**

Porter, Michael *see* **Greenberg, Peter, 90c:58141**

Ranganathan, P. V. A direct procedure for deriving the invariants of certain nonlinear dynamical systems. **90b:34002**

Rychlik, Marek Ryszard Periodic points of the billiard ball map in a convex domain. **90g:58108**

Samoĭlenko, V. Gr. A method for constructing implectic and recursion operators of completely integrable dynamical systems. (Russian) **90d:58060**

Sinaĭ, Ya. G. *see* **Bunimovich, L. A., 90d:58073**

Steeb, W.-H. (*with* van Tonder, A. J.) A comment on Lax representation, first integrals, Painlevé analysis and Nambu mechanics. **90e:58067**

Strantzalos, Polychronis Eine Charakterisierung der D^+-stabilen dynamischen Systeme auf lokal kompakten metrisierbaren Räumen. [A characterization of the D^+-stable dynamical systems on locally compact metrizable spaces] **90j:54041**

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van Tonder, A. J. *see* **Steeb, W.-H., 90e:58067**

Tongue, Benson H. (*with* Gu, Keqin) A theoretical basis for interpolated cell mapping. **90a:54027**

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uraev, D. V. Bifurcations of a homoclinic “figure eight” of a multidimensional saddle. **90m:58156**
altman, Paul *see* **Hale, Jack K., 90b:58156**
Vojciechowski, S. A new test for integrability of Riccati systems of equations. **90d:58066**
- *see also* **Strelcyn, J.-M., 90b:58139**
orke, James A. *see* **Ott, Edward; et al., 90b:58185** *and* **Coven, Ethan M.; et al., 90b:58236**
oshida, Haruo Ziglin analysis for proving nonintegrability of Hamiltonian systems. **90b:58093**

4C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]

aris, Ya. S. (*with* Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) **90m:34097**
ilippov, M. G. On the reducibility of systems with almost periodic perturbation. (Russian) **90m:34098**
ykova, O. B. *see* **Baris, Ya. S., 90m:34097**

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sada, Akira Monodromy of a differential equation having a quadratic nonlinear term. **90h:58007**
aldassarri, F. (*with* Dwork, B.; Tovena, F.) On singular projective structures on Riemann surfaces. **90m:30058**
eloqui, Jorge A. A complete set of invariants for a quasi-transversal Hopf bifurcation. **90k:58147**
ima, Anna (*with* Llibre, J.) Bounded polynomial vector fields. **90g:58083**
as, Ashok (*with* Okubo, Susumu) A systematic study of the Toda lattice. **90e:58045**
odson, M. M. (*with* Rynne, B. P.; Vickers, J. A. G.) Averaging in multifrequency systems. **90d:34084**
work, B. *see* **Baldassarri, F.; et al., 90m:30058**
ernandes, M. L. (*with* Zanolin, Fabio) Repelling conditions for boundary sets using Liapunov-like functions. I. Flow-invariance, terminal value problem and weak persistence. **90c:58091**
alkin, O. G. Resonance regions for Mathieu-type dynamical systems. **90k:58186**
Han, Mao An Existence of closed or singular closed orbits of continuous flows on surfaces. (Chinese summary) **90b:58230**
ooss, G. Global characterization of the normal form for a vector field near a closed orbit. **90c:58129**
– (*with* Rossi, Maurice) Hopf bifurcation in the presence of spherical symmetry: analytical results. **90g:58087**
Khan, I. S. *see* **Petrov, Nikolaĭ Nikolaevich, 90k:58203**
Kozlov, Valeriĭ V. Bifurcation of solutions, and polynomial integrals in an invertible system on a torus. **90a:58131**
Kukushkin, A. P. Control of motion in an arcwise connected space. (Russian) **90b:49032**
Kulik, A. N. Application of methods for the approximation of functions in the theory of the stability of the invariant tori of dynamical systems. (Russian) **90b:34079**
Lerman, L. M. Hamiltonian systems with a separatrix loop of a saddle-center. (Russian) **90g:58036**
Llibre, J. *see* **Cima, Anna, 90g:58083**
Mai, Jie Hua Besicovitch’s topological transformations of plane and Birkhoff’s conjecture. **90d:58082**
Moreva, M. B. Stability of attracting sets in the metric R_0 with respect to C^0-perturbations. **90b:58136**
Okubo, Susumu *see* **Das, Ashok, 90e:58045**
Osipenko, G. S. Coordinates near an invariant manifold. (Russian) **90m:58112**
Petrov, Nikolaĭ Nikolaevich (*with* Khan, I. S.) Limit sets for trajectories of dynamical polysystems. **90k:58203**
Reich, Sebastian Algebrodifferentialgleichungen und Vektorfelder auf Mannigfaltigkeiten. [Algebro-differential equations and vector fields on manifolds] **90j:58136**
Rossi, Maurice *see* **Iooss, G., 90g:58087**
Rynne, B. P. *see* **Dodson, M. M.; et al., 90d:34084**
Tkachenko, V. I. The Green function and conditions for the existence of invariant sets of sampled-data systems. (Russian) **90j:34077**
Tovena, F. *see* **Baldassarri, F.; et al., 90m:30058**
Vickers, J. A. G. *see* **Dodson, M. M.; et al., 90d:34084**
Zanolin, Fabio *see* **Fernandes, M. L., 90c:58091**

34C45 Method of integral manifolds

Bogatyrev, S. V. (*with* Sobolev, V. A.) Separation of fast and slow motions in problems of the dynamics of systems of rigid bodies and gyroscopes. **90a:34096**
Kokotović, Petar V. (*with* Sauer, Peter W.) Integral manifold as a tool for reduced-order modeling of nonlinear systems: a synchronous machine case study. **90b:34072**
Kulik, V. L. Invariant tori of linear extensions of dynamical systems of triangular type. (Russian) **90b:34073**
Sauer, Peter W. *see* **Kokotović, Petar V., 90b:34072**
Sobolev, V. A. *see* **Bogatyrev, S. V., 90a:34096**

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Baris, Ya. S. A method of constructing approximate integral manifolds. **90b:34068**
Chernyshov, K. I. *see* **Sobolev, V. A., 90d:34006**
Gol′dshteĭn, V. M. (*with* Sobolev, V. A.; Yablonskiĭ, G. S.) Relaxation oscillations in chemical kinetics. (Russian) **90i:58176**
Gu, Zhong-Mei (*with* Nefëdov, N. N.; O’Malley, R. E., Jr.) On singular singularly perturbed initial value problems. **90c:34062**
ooss, G. Global characterization of the normal form for a vector field near a closed orbit. **90c:58129**
Knobloch, H. W. Dichotomy and integral manifolds. II. Proof of the continuation principle. **90k:34053**
Nefëdov, N. N. *see* **Gu, Zhong-Mei; et al., 90c:34062**
O’Malley, R. E., Jr. *see* **Gu, Zhong-Mei; et al., 90c:34062**
Sobolev, V. A. Integral manifolds, stability and decomposition of singularly perturbed systems in Banach space. **90f:34102**
— (*with* Chernyshov, K. I.) A singularly perturbed differential equation with a Fredholm operator multiplying the derivative. **90d:34006**
— *see also* **Gol′dshteĭn, V. M.; et al., 90i:58176**
Vorob′ev, N. N., Jr. *see* **Zubov, I. V., 90f:93002**
Yablonskiĭ, G. S. *see* **Gol′dshteĭn, V. M.; et al., 90i:58176**
Zubov, I. V. (*with* Vorob′ev, N. N., Jr.) ★ Качественный анализ процессов управления. (Russian) [Qualitative analysis of control processes] **90f:93002**

34C99 None of the above, but in this section

Andres, Ján (*with* Mikołajski, Jarosław; Palát, Jindřich) Über die Trichotomie von Lösungen einer nichtlinearen Vektordifferentialgleichung zweiter Ordnung. (Russian and Czech summaries) [On the trichotomy of solutions of a nonlinear second-order vector differential equation] (Not in MR)
Boĭmatov, K. Kh. (*with* Lizorkin, P. I.) Estimates for the growth of solutions of differential equations. **90j:34061**
Chen, Xiao Xing A simple disproval of Milliončikov’s example. **90h:34063**
Fedotova, L. L. *see* **Momot, I. P.; et al.**, (**90k:00018**)
Herold, H. Anwendung des Vergleichssatzes auf k-Diskonjugiertheit. [Application of the comparison theorem to k-disconjugacy] (Not in MR)
Kantemir, I. I. *see* **Momot, I. P.; et al.**, (**90k:00018**)
Karimzhanov, A. *see* **Martynyuk, A. A., 90a:34097**
Lizorkin, P. I. *see* **Boĭmatov, K. Kh., 90j:34061**
Martynyuk, A. A. (*with* Karimzhanov, A.) Limiting equations and stability of nonstationary motions. **90a:34097**
Mikołajski, Jarosław *see* **Andres, Ján; et al.**, (Not in MR)
Momot, I. P. (*with* Kantemir, I. I.; Fedotova, L. L.) Qualitative analysis of a dynamical system on a plane with corner points. (Russian) (*see* **90k:00018**)
Palát, Jindřich *see* **Andres, Ján; et al.**, (Not in MR)
Robinson, F. N. H. Experimental observation of the large-amplitude solutions of Duffing’s and related equations. (Not in MR)
Seke, Bobo Régionalisations et van der Pol épaissi. [Regionalizations and thick van der Pol systems] **90a:34098**

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Aubin, Jean-Pierre Qualitative simulation of differential equations. **90k:68158**
Kwapisz, Marian Some remarks on comparison theorems for discrete inequalities. **90f:39009**
Li, Jian Hua^2 (*with* Michel, A. N.; Porod, W.) Qualitative analysis and synthesis of a class of neural networks. **90b:92021**
Michel, A. N. *see* **Li, Jian Hua^2; et al., 90b:92021**
Ogorzałek, Maciej J. On the analysis of nonlinear circuits governed by constrained differential equations. (*see* **90m:94004**)
Porod, W. *see* **Li, Jian Hua^2; et al., 90b:92021**
Sharkawi, I. E. On a solution of the operator differential equation with variable coefficients. **90a:44007**
Shen, Wen Xian Numerical analysis of the dynamical behavior of the equation of J-J type. **90j:58095**
Skachkov, B. N. Conditions for the dissipativity of an nth order equation. (Russian) **90m:34112**
Utkin, G. A. *see* **Vesnitskiĭ, A. I., 90a:70027**
Vesnitskiĭ, A. I. (*with* Utkin, G. A.) Motion of a body along a string under the action of wave pressure forces. **90a:70027**
Zhang, Xiu Jun *see* **Zhu, Si Ming**, (Not in MR)
Zhu, Si Ming (*with* Zhang, Xiu Jun) Mel′nikov’s method and its error estimation. (Chinese) (Not in MR)

34Dxx Stability theory [see also 58F10, 93Dxx]

Graef, John R. (*with* Spikes, Paul W.; Hatvani, L.; Karsai, J.) Some stability-type results for second order nonlinear differential equations. (*see* **90f:00003**)
Hatvani, L. *see* **Graef, John R.; et al.**, (**90f:00003**)
He, Jian Xun Finite-time stability, practical stability and strong practical stability of discontinuous large-scale systems. (Chinese. English summary) **90m:34099**
Karsai, J. *see* **Graef, John R.; et al.**, (**90f:00003**)
Spikes, Paul W. *see* **Graef, John R.; et al.**, (**90f:00003**)

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Baĭnov, D. D. (*with* Simeonov, P. S.) ★ Systems with impulse effect. **90i:93082**
Harris, Christopher J. (*with* Valenca, J. M. E.) ★ Устойчивость динамических систем с обратной связью. (Russian) [The stability of feedback dynamical systems] **90g:93070**
Ignat′ev, A. O. *see* **Savchenko, A. Ya., 90h:34002**
Savchenko, A. Ya. (*with* Ignat′ev, A. O.) ★ Некоторые задачи устойчивости неавтономных динамических систем. (Russian) [Some problems in the stability of nonautonomous dynamical systems] **90h:34002**
Schwabik, Štefan Generalized differential equations: special results. (Russian summary) **90f:34003**
Simeonov, P. S. *see* **Baĭnov, D. D., 90i:93082**
(Tolmachëv, V. V.) *see* **Harris, Christopher J., 90g:93070**
Valenca, J. M. E. *see* **Harris, Christopher J., 90g:93070**
Wang, Dong Ming Computer algebraic methods for investigating plane differential systems of center and focus type. **90f:34004**

34D05 Asymptotic properties; characteristic exponents

Abakirov, T. Sh. Inequalities between auxiliary and central exponents. **90i:34071**
— Auxiliary exponents. (Russian) **90e:34079**

Al'tman, A. K. (*with* Chekhovoĭ, Yu. N.) Conditions for the stability of the trivial solution of some quasilinear dynamical systems. (Russian) **90h:34064**
Alvarez, Carlos (*with* Tineo, Antonio) Asymptotically stable solutions of Lotka-Volterra equations. (Serbo-Croatian summary) **90d:34088**
Ammosova, N. D. *see* **Sofronov, E. T., 90f:34079**
Antipin, A. S. Continuous and iterative processes with projection operators and projection-type operators. (Russian) **90i:34072**
Bagrova, A. I. (*with* Matvienko, A. M.) A divergence condition for asymptotic stability in the large. (Russian) **90d:34089**
Baĭnov, D. D. *see* **Kulev, G. K., 90a:34099; Simeonov, P. S., 90a:34102** *and* **Kulev, G. K., 90h:34066**
Barabanov, E. A. Distribution of lower Perron exponents of linear differential systems on lines in a phase space. **90g:34047**
Berezanskiĭ, L. M. Some properties of higher and general exponents of a linear functional-differential equation. (Russian) **90d:34090**
Berger, B. S. (*with* Rokni, M.) The Lyapunov spectra of partially coupled dynamical systems. **90d:34091**
— (*with* Rokni, M.) Least squares approximation of Lyapunov exponents. **90g:34048**
Bespoyasko, L. G. (*with* Skibenko, V. P.) On the construction of domains of asymptotic stability. II. (Russian) (*see* **90a:00009**)
Chekhovoĭ, Yu. N. *see* **Al'tman, A. K., 90h:34064**
Drik, N. G. Asymptotic behavior of solutions of a nonlinear second-order differential equation in a special case. (Russian) **90g:34049**
El-Nahhas, A. A study on the stability of a periodic solution of a general nonlinear nth order differential equation. **90d:34092**
Freedman, H. I. (*with* Sree Hari Rao, V.; So, Joseph W.-H.) Asymptotic behavior of a time-dependent single-species model. **90g:34050**
Howe, A. Sufficient conditions for the strong stability of the differential equation $[p(D)+f(t)q(D)]y=0$. **90h:34065**
Ignat'ev, A. O. Preservation of the property of uniform asymptotic stability with respect to some of the variables. **90e:34080**
Illarionova, O. G. Auxiliary exponents of linear systems of differential equations. (Russian. English and Georgian summaries) **90f:34078**
— The central exponent of a linear system of differential equations. **90e:34081**
Izobov, N. A. (*with* Makarov, E. K.) Lyapunov irregular linear systems with a parameter multiplying the derivative. **90g:34051**
— *see also* **Volkov, I. A., 90d:34099; Prokhorova, R. A., 90j:34063** *and* **Volkov, I. A., 90j:34064**
Kalas, J. *see* **Ráb, Miloš, 90h:34067**
Kolesov, A. Yu. (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. I. (Russian) **90d:34093**
— (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. II. (Russian) **90d:34094**
Kolesov, Yu. S. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**
Kulev, G. K. (*with* Baĭnov, D. D.) Asymptotic stability of systems with impulses by the direct method of Lyapunov. **90a:34099**
— (*with* Baĭnov, D. D.) Global stability of sets for systems with impulses. **90h:34066**
Lakshmikantham, V. (*with* Liu, Xinzhi) On asymptotic stability for nonautonomous differential systems. **90k:34055**
Leizarowitz, Arie On the Lyapunov exponent of a harmonic oscillator driven by a finite-state Markov process. **90e:34082**
Lin, Mu Ren Linear systems and exponential dichotomies. **90a:34100**
Liu, Xinzhi *see* **Lakshmikantham, V., 90k:34055**
Magnitskiĭ, N. A. The method of characteristic functions in stability theory. **90j:34062**
Makarov, E. K. *see* **Izobov, N. A., 90g:34051**
Matvienko, A. M. *see* **Bagrova, A. I., 90d:34089**
Millionshchikov, V. M. A generic property of Lyapunov exponents of linear systems of differential equations. (Russian. Kazakh summary) **90d:34096**
— A generic property of Lyapunov exponents of linear systems of differential equations of different classes. (Russian. Kazakh summary) **90d:34095**
— Lyapunov exponents as functions of a parameter. **90e:34083**
Mishchenko, E. F. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**
Murakami, Kouichi (*with* Yamamoto, Minoru) On the asymptotic property of the ordinary differential equation. **90d:34097**
Nudel'man, M. A. A special case of a problem on the absolute stability of systems of ordinary differential equations. (Not in MR)
Osička, Jan Asymptotic stability of two-dimensional linear differential systems. (Russian. English and Georgian summaries) **90d:34098**
Prokhorova, R. A. (*with* Izobov, N. A.) Unstable linear systems of R. Conti. (Russian) **90j:34063**
Qian, Chuan Xi On global asymptotic stability of a kind of third-order nonlinear systems. (Chinese summary) (Not in MR)
Ráb, Miloš (*with* Kalas, J.) Stability of dynamical systems in the plane. **90h:34067**
Rokni, M. *see* **Berger, B. S., 90d:34091** *and* **90g:34048**
Rozov, N. Kh. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**
Safonova, M. A. Lyapunov characteristic exponents of systems of directly coupled oscillators. (Russian) **90a:34101**
Sergeev, I. N. Lyapunov exponents of regular systems with perturbations that are small in the mean. (Russian. English summary) **90b:34074**
Simeonov, P. S. (*with* Baĭnov, D. D.) Exponential stability of the solutions of the initial value problem for systems with an impulse effect. **90a:34102**
Skibenko, V. P. *see* **Bespoyasko, L. G., (90a:00009)**
So, Joseph W.-H. *see* **Freedman, H. I.; et al., 90g:34050**
Sofronov, E. T. On the asymptotic stability in the large of a system of four equations. (Russian) **90e:34084**
— (*with* Ammosova, N. D.) Asymptotic stability in the large in a special case. (Russian) **90f:34079**
Sree Hari Rao, V. *see* **Freedman, H. I.; et al., 90g:34050**
Surin, T. L. Exponents of regular Lappo-Danilevskiĭ systems. (Russian) **90e:34085**
Tang, Jin Long Stability of the null solution to a class of nonautonomous nonlinear large-scale systems. (Chinese. English summary) (Not in MR)
Tineo, Antonio *see* **Alvarez, Carlos, 90d:34088**
Trzepizur, Andrzej L'équivalence asymptotique au sens de Ważewski: un analogue d'un théorème de Levinson. (English and Russian summaries) [Asymptotic equivalence in the sense of Ważewski: an analogue of a theorem of Levinson] **90i:34073**
Tsukamoto, Ichiro On a full spectrum condition for 2-dimensional linear quasi-periodic systems. **90c:34051**
Volkov, I. A. (*with* Izobov, N. A.) Connectivity components of a set of characteristic exponents of a differential system with higher-order perturbations. (Russian. English summary) **90d:34099**
— (*with* Izobov, N. A.) A set of lower Perron exponents for a differential system with higher-order perturbations. (Russian. English summary) **90j:34064**
Vorotnikov, V. I. Stability of motion with respect to some of the variables. **90i:34074**
Wada, Teruyo (*with* Yamamoto, Minoru) Asymptotic stability theorems for a nonlinear second order differential equation. **90d:34100**
— Some results on asymptotic stability by extending Matrosov's theorems. **90h:34068**
Yamamoto, Minoru *see* **Murakami, Kouichi, 90d:34097** *and* **Wada, Teruyo, 90d:34100**
Yan, Xing Min Asymptotic stability of solutions of nonlinear systems. (*see* **90j:00023**)

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Ammar, A. A. *see* **El-Owaidy, H., 90b:92046**
Arnold, Ludwig (*with* Kloeden, Peter) Lyapunov exponents and rotation number of two-dimensional systems with telegraphic noise. **90f:93062**
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Kosov, A. A. On the problem of stability of motion with respect to some of the variables. (Russian) **90f:34086**
Kulev, G. K. (*with* Baĭnov, D. D.) On the asymptotic stability of systems with impulses by the direct method of Lyapunov. **90d:34107**
Kushner, H. J. Approximations and optimal control for the pathwise average cost per unit time and discounted problems for wideband noise-driven systems. **90c:93113**
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Zubov, V. I. Systems of differential equations with two singular points of regular type. **90i:35069**

34D10 Perturbations

Anashkin, O. V. (*with* Khapaev, Mikhail Mikhaĭlovich) The comparison method and investigation of the stability of systems of ordinary differential equations containing perturbations. II. **90e:34086**

Baĭnov, D. D. *see* **Milev, N. V., 90f:34081**; **Kulev, G. K., 90h:34069** *and* **90h:34070**

Battelli, Flaviano (*with* Lazzari, Claudio) Generalized Mel′nikov functions and existence of bounded solutions in systems with parameters. **90e:34087**

Budinčević, M. *see* **Kulenović, M. R. S., 90a:34104**

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34D15 Singular perturbations

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34D20 Lyapunov stability

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Kostadinov, S. I. *see* **Zabreĭko, P. P.; et al., 90d:34112**
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— (*with* Liu, Xinzhi) Stability criteria for impulsive differential equations in terms of two measures. **90b:34076**
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Saito, Seiji Global stability of solutions for quasilinear ordinary differential systems. **90k:34057**
Salvadori, L. *see* **Bernfeld, S. R.; et al., 90j:34069**
Shatyrko, A. V. *see* **Ivokhin, E. V.**, (Not in MR)
Simeonov, P. S. (*with* Baĭnov, D. D.) Convergence to a constant of the solutions of differential equations with impulse effect. **90a:34108**
Sirazetdinov, T. K. *see* **Aminov, A. B., 90g:34052**
Starozhilov, E. F. *see* **Barabanov, A. T., 90j:34068**
Stepanov, A. V. Application of higher-order forms in studying stability. (Russian) **90m:34106**
— *see also* **Persidskiĭ, S. K., 90c:34054**
Tang, Mu Zhong Stability of second-order ordinary differential equations. (Chinese) **90k:34058**
Uteshev, A. Yu. On the existence of a polynomial Lyapunov function. (Russian) **90j:34075**
Visentin, F. *see* **Bernfeld, S. R.; et al., 90j:34069**
Voronov, A. A. *see* **Abdullin, R. Z.; et al., 90b:34075**
Wada, Teruyo (*with* Yamamoto, Minoru) Globally asymptotic stability of solutions of ordinary differential equations. **90d:34111**
Xu, Cheng Long Generalization of stability theorem. **90a:34109**
Yakubovich, V. A. Absolute stability of nonlinear periodic systems. (Russian) **90f:34088**
Yamamoto, Minoru *see* **Wada, Teruyo, 90d:34111**
Ye, Bai Ying Auxiliary systems of equations in the theory of large-scale systems. (Chinese. English summary) **90f:34089**
— An energy metric algorithm for the generation of Lyapunov functions for second-order systems. (Chinese. English summary) **90h:34077**
Zabreĭko, P. P. (*with* Baĭnov, D. D.; Kostadinov, S. I.) Stability of linear equations with impulse effect. **90d:34112**
Zahreddine, Z. On the uniform stability of a system of differential equations with complex coefficients. **90j:34076**
Zampieri, Gaetano Some problems in stability of the equilibrium related to coexistence of solutions to Hill's equations. (*see* **90f:00003**)
Zappalà, Giuseppe On total instability. **90a:34110**
Zeĭfman, A. I. Stability of a linear system. (Russian) (*see* **90a:00009**)
Zemlyakov, A. S. *see* **Abdullin, R. Z.; et al., 90b:34075**
Zhang, Yi^1 Stability of the dynamical system $dx/dt = A(t)x$. (Chinese. English summary) **90h:34078**
Zhao, Huai Zhong The asymptotic behavior of ordinary differential equations. I. (Chinese. English summary) **90i:34080**
Zhao, Jun San A criterion for the stability of motion of nonlinear system. **90a:34111**
Zhong, Hong Fa Global stability of nonlinear variable coefficient systems with separated variables. (Chinese. English summary) (Not in MR)
Zhuikova, A. G. (*with* Khusainov, D. Ya.) Optimization of an estimate for the domain of variation of parameters in systems of indirect control. (Russian) **90a:34112**
Zubov, V. I. Integral invariants of asymptotically stable systems of differential equations. **90e:34094**
— Vibrational effects in linear and nonlinear systems. (Not in MR)

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Amatova, G. M. Stability of singular points of n-dimensional systems with impulses. (Russian) **90f:58103**

Aminov, A. B. (*with* Sirazetdinov, T. K.) Conditions for a sum of forms to have a fixed sign and for the stability of motion on manifolds. **90b:58132**

Aubin, Jean-Pierre Smallest Lyapunov functions of differential inclusions. **90d:49007**

Baĭnov, D. D. *see* **Kulev, G. K., 90h:34069**

Basu, Sankar On the multidimensional generalization of robustness of scattering Hurwitz property of complex polynomials. **90g:93072**

Batalova, Z. S. (*with* Belyakova, G. V.) Domains of existence and stability of steady-state and periodic motions of a parametrically excitable pendulum. (Russian) **90h:34053**

Belyakova, G. V. *see* **Batalova, Z. S., 90h:34053**

Beretta, Edoardo (*with* Takeuchi, Yasuhiro) Homotopy techniques in stability problems of delay-diffusion Volterra models. **90f:92021**

— (*with* Fergola, Paolo; Tenneriello, Catello) Ultimate boundedness for nonautonomous diffusive Lotka-Volterra patches. **90b:92041**

— A homotopy technique for a linear generalization of Volterra models. **90f:92031**

Biragov, V. S. Bifurcations in a two-parameter family of conservative mappings that are close to the Hénon mapping. (Russian) **90e:58113**

Blanchini, Franco (*with* Policastro, Mario) Matrix bidiagonal form. **90g:93022**

Bossel, H. *see* **Trost, N., 90e:92043**

Burton, Theodore Allen (*with* Casal, A.; Somolinos, A.) Upper and lower bounds for Liapunov functionals. **90f:34117**

Casal, A. *see* **Burton, Theodore Allen; et al., 90f:34117**

Chen, Wen De (*with* Han, Jing Qing) A new method for solving Riccati equations and Liapounoff equations. **90g:93023**

Chiang, Hsiao-Dong Study of the existence of energy functions for power systems with losses. **90h:94055**

DiPerna, R. J. (*with* Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. **90j:34004**

Elaydi, S. (*with* Peterson, Allan C.) Stability of difference equations. **90m:39014**

Fal'ko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. **90i:34082**

Farrell, J. A. *see* **Michel, A. N.; et al., 90g:92030a** *and* **90g:92030b**

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Franks, John A variation on the Poincaré-Birkhoff theorem. **90e:58095**

Furta, S. D. The loss of stability of the equilibrium of a flexible inextensible thin rod with a fixed end in a gravity force field. (Russian) **90c:73060**

Furumochi, Tetsuo Uniform asymptotic stability in perturbed differential equations. **90a:34103**

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Garashchenko, F. G. Some problems in the stability and optimization of the dynamics of beams. (Russian) **90j:34065**

Gelig, A. Kh. Stability of sampled-data systems with a negative dominating diagonal. **90e:93064**

Gu, Dao Xiu The limit cycles of a class of cubic systems. (Chinese. English summary) **90f:34057**

Han, Jing Qing *see* **Chen, Wen De, 90g:93023**

Hill, David J. On the equilibria of power systems with nonlinear loads. **90h:94058**

Howard, J. E. Routh revisited. **90j:58071**

Huang, Fa Lun (*with* Liu, Kang Sheng) A problem of exponential stability for linear dynamical systems in Hilbert spaces. **90g:34062**

Ignat'ev, A. O. *see* **Savchenko, A. Ya., 90h:34002**

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Kalitin, B. S. Stability in the presence of an invariant surface. (Russian) **90i:58090**

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Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. **90i:70011**

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Kwatny, Harry G. (*with* Yu, Xiao Ming) Energy analysis of load-induced flutter instability in classical models of electric power networks. **90k:58105**

Lazer, A. C. (*with* McKenna, P. J.) On the existence of stable periodic solutions of differential equations of Duffing type. **90m:34093**

Len, Jonathan L. (*with* Rand, Richard H.) Lie transforms applied to a nonlinear parametric excitation problem. **90b:34055**

Letavin, M. I. Characterization of the asymptotic stability of homogeneous potential operators by means of eigenvalues. **90k:34078**

Levi, Mark Stability of the inverted pendulum—a topological explanation. **90c:58093**

Li, Zhi Xiang Application of the Lyapunov method to the study of almost periodic systems. (Chinese) (Not in MR)

Lions, P.-L. *see* **DiPerna, R. J., 90j:34004**

Liu, Kang Sheng *see* **Huang, Fa Lun, 90g:34062**

Ma, Hong The stability problem for stochastic differential equations on a Hilbert space. (Chinese. English summary) **90g:93086**

Magnitskiĭ, N. A. On the stability of closed time-dependent controllable systems. (Russian. English summary) (Not in MR)

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Marchal, Christian Le théorème de quasi-résonance. (English summary) [The near-resonance theorem] **90c:70027**

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Michel, A. N. (*with* Farrell, J. A.; Porod, W.) Qualitative analysis of neural networks. **90g:92030a**

— (*with* Farrell, J. A.; Porod, W.) Correction to: "Qualitative analysis of neural networks". **90g:92030b**

Molchanov, A. P. (*with* Pyatnitskiĭ, E. S.) Criteria of asymptotic stability of differential and difference inclusions encountered in control theory. **90g:34014**

Murty, K. N. (*with* Srinivas, M. A. S.; Prasad, K. R.) Approximate analytical solutions to the three-species ecological system. **90m:92080**

Ohe, Takashi (*with* Yamamoto, Minoru) On the exponentially asymptotic stability of a perturbed nonlinear system. **90h:34071**

Okuda, Masami An exclusion principle for states of equilibrium in the Lotka-Volterra system. **90g:92072**

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Pyatnitskiĭ, E. S. *see* **Molchanov, A. P., 90g:34014**

Ráb, Miloš (*with* Kalas, J.) Stability of dynamical systems in the plane. **90h:34067**

Rama Mohana Rao, M. (*with* Sivasundaram, S.) Perturbing Liapunov functions and Lagrange stability in terms of two measures. **90d:34103**

— (*with* Sivasundaram, S.) Perturbing Liapunov functions and ultimate boundedness in terms of two measures. **90h:34080**

Rand, Richard H. *see* **Len, Jonathan L., 90b:34055**

Rantsevich, V. A. (*with* Samson, A. M.) Limit cycles of a dynamical system that models the functioning of a laser. (Russian) **90e:34056**

Repilado Ramírez, José Antonio The bifurcation equation of a periodic system of ordinary differential equations. (Spanish) **90a:58138**

Saito, Seiji Global behavior of solutions of quasilinear ordinary differential systems. **90g:34007**

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Somolinos, A. *see* **Burton, Theodore Allen; et al., 90f:34117**

Srinivas, M. A. S. *see* **Murty, K. N.; et al., 90m:92080**

Stubbe, Joachim Linear stability theory of solitary waves arising from Hamiltonian systems with symmetry. **90g:58061**

Takeuchi, Yasuhiro Cooperative systems theory and global stability of diffusion models. **90i:92033**

— *see also* **Beretta, Edoardo, 90f:92021**

Tasso, H. An improved estimate of the "attractive region" and modelling of fluctuation spectra. **90d:58072**

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Thews, Klaus Der Abbildungsgrad von Vektorfeldern zu stabilen Ruhelagen. (English summary) [The degree of mapping of vector fields for stable rest positions] **90b:58140**

Trost, N. (*with* Bossel, H.) Analysis of a parameter dependent tree growth model with nondifferentiable right hand side. **90e:92043**

Tsinias, J. Generalizations of the instability theorem of Chetaev to nonlinear control systems. **90j:93085**

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Zadvornyĭ, B. V. Construction of Lyapunov functions for the investigation of the continuability of solutions. (Russian) **90f:34009**

Zampieri, Gaetano On the periodic oscillations of $\ddot{x} = g(x)$. **90b:34057**

Zhu, Si Ming Recent developments outside China in the stability theory of ODEs. (Chinese) **90a:34004**

Zhuĭkova, A. G. (*with* Khusainov, D. Ya.) A numerical algorithm for constructing an optimal Lyapunov function in problems of absolute stability. (Russian) **90a:65169**

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Deĭch, V. G. Generalization of the frequency theorem to the case of an unbounded observation operator and its applications to problems of absolute stability. **90k:34059**

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Leonov, G. A. *see* **Lapachugina, M. I., 90k:34060**

Savkin, A. V. Frequency criteria for the stability and instability of linear periodic systems. **90h:34079**

34D30 Structural stability and analogous concepts [see also 58Fxx]

Akhmetov, M. U. *see* **Samoĭlenko, A. M.; et al., 90m:34109**

Alymkulov, K. A problem of singular perturbation with a limit cycle in a subsystem with fast time. (Russian) (Not in MR)

Baĭnov, D. D. *see* **Simeonov, P. S., 90i:34081**

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Chow, Shui-Nee (*with* Lü, Ke Ning) Center unstable manifolds in quasiperiodic and averaging systems. **90d:34113**

Grod, I. N. *see* **Mitropol'skiĭ, Yu. A., 90m:34108**

Kolesov, A. Yu. Instability of duck cycles that arise in the passage of an equilibrium state of a multidimensional relaxed system through a failure manifold. (Russian) (Not in MR)

Kulik, A. N. Application of methods for the approximation of functions in the theory of the stability of the invariant tori of dynamical systems. (Russian) **90b:34079**

Letavin, M. I. On the domain of asymptotic stability of the invariant set of a dynamical system that does not possess the property of uniform change of distance. **90d:34114**

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Mitropol'skiĭ, Yu. A. (*with* Grod, I. N.) Some problems of invariant manifolds, and sign-variable Lyapunov functions. (Russian) **90m:34108**

Osipenko, G. S. Conditions for the preservation of an invariant manifold. (Russian) **90e:34095**

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Tkachenko, V. Ĭ. The Green function and conditions for the existence of invariant sets of sampled-data systems. (Russian) **90j:34077**

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— (*with* Lykova, O. B.) Integral manifolds and the reduction principle in stability theory. I. (Russian) **90m:34097**

Berretti, Alberto (*with* Chierchia, Luigi) On the complex analytic structure of the golden invariant curve for the standard map. **90k:58126**

Bogatyĭ, S. A. (*with* Gutsu, V. I.) On the structure of attracting compacta. (Russian) **90j:58076**

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Cicogna, G. Effects of symmetry-breaking perturbations on the onset of the "Smale-horseshoe" chaos. **90c:58163**

Gao, Wei Xin Globally semistable cubic systems. (Chinese) **90i:58159**

Grod, I. N. On the existence of an invariant manifold for some irregularly perturbed systems. (Russian) **90m:58182**

Guseĭnov, Kh. G. (*with* Ushakov, V. N.) Strongly and weakly invariant sets with respect to a differential inclusion. **90i:34021**

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Huseyin, K. *see* **Yu, Pei, 90i:58146**

Irtegov, V. D. Gyroscopic stabilization and bifurcations. (Russian) **90e:70026**

Isaacson, Eli L. (*with* Marchesin, Dan; Plohr, Bradley J.) Transitional shock waves. (*see* **90i:00003**)

Knobloch, H. W. A method for construction of invariant manifolds. (Russian summary) **90d:34087**

Kotus, Janina Global C^r structural stability of vector fields on open surfaces with finite genus. **90k:58102**

Leonov, G. A. Asymptotic behavior of the solutions of the Lorenz system. **90a:58104**

Lykova, O. B. *see* **Baris, Ya. S., 90a:34117** *and* **90m:34097**

Marchesin, Dan *see* **Isaacson, Eli L.; et al., (90i:00003)**

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Myrzaliev, Dzh. Bifurcation of invariant tori in a certain case. (Russian. Kazakh summary) **90i:58142**

Neshcheret, V. I. Problems in the stabilization of a program manifold. (Russian) **90c:93023**

Ordynskaya, Z. P. On the problem of the smoothness of the invariant torus of a perturbed system. (Russian) **90k:58190**

Osipenko, G. S. A study of uniformly separated periodic systems. (Russian) **90e:34069**

— Examples of perturbations of invariant manifolds. **90k:58191**

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Plohr, Bradley J. *see* **Isaacson, Eli L.; et al., (90i:00003)**

Rantsevich, V. A. (*with* Samson, A. M.) Limit cycles of a dynamical system that models the functioning of a laser. (Russian) **90e:34056**

Ruzaev, V. P. On the bifurcation of an invariant torus $T^m \to T^{m+1}$. (Russian) **90i:58143**

Samson, A. M. *see* **Rantsevich, V. A., 90e:34056**

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Vyshenskaya, O. V. On the existence of an invariant torus of a class of discontinuous dynamical systems. (Russian) **90i:58168**

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Yu, Shu Xiang Trajectories joining critical points. (Chinese) **90i:58169**

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Ivokhin, E. V. Optimization of qualitative estimates for quasilinear systems. (Russian) **90a:34114**

Rama Mohana Rao, M. (*with* Sivasundaram, S.) Perturbing Liapunov functions and ultimate boundedness in terms of two measures. **90h:34080**

Sivasundaram, S. *see* **Rama Mohana Rao, M., 90h:34080**

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Andres, Ján Structure of the phase-space for the third-order forced nonlinear differential equations belonging to the generalized class D' in the sense of Levinson. **90d:34068**

Beretta, Edoardo (*with* Fergola, Paolo; Tenneriello, Catello) Ultimate boundedness for nonautonomous diffusive Lotka-Volterra patches. **90b:92041**

Bitsoris, Georges On the positive invariance of polyhedral sets for discrete-time systems. **90d:39004**

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Fal'ko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. **90i:34082**

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— *see also* **Beretta, Edoardo; et al., 90b:92041**

Karimzhanov, A. *see* **Martynyuk, A. A., 90a:34097**

Kravaris, Costas (*with* Palanki, Srinivas) A Lyapunov approach for robust nonlinear state feedback synthesis. **90i:93035**

Liu, Nan Gen The limit cycles of a predator-prey system with Holling type I functional response. (Chinese) **90e:92069**

Martynyuk, A. A. (*with* Karimzhanov, A.) Limiting equations and stability of nonstationary motions. **90a:34097**

— (*with* Chernetskaya, L. N.) An estimate of unsteady motions on time-dependent sets. **90g:34055**

Palanki, Srinivas *see* **Kravaris, Costas, 90i:93035**

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Tenneriello, Catello *see* **Beretta, Edoardo; et al., 90b:92041** *and* **Fergola, Paolo, 90g:92060**

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34D99 None of the above, but in this section

Baĭnov, D. D. *see* **Zabreĭko, P. P.; et al., 90f:34090** *and* **Kulev, G. K., 90i:34083**

Borisenko, S. D. Practical stability of solutions of sampled-data systems. (Russian) **90j:34078**

Fal'ko, N. S. Application of the method of Lyapunov functions in the problem of Poisson stability. **90i:34082**

Garashchenko, F. G. (*with* Pantalienko, L. A.) Solution of sensitivity theory problems by the practical stability method. (Not in MR)

Ignat'ev, A. O. Stability of almost periodic systems with respect to some of the variables. (Russian) (Not in MR)

Klee, Victor Sign-patterns and stability. **90h:34081**

Kostadinov, S. I. *see* **Zabreĭko, P. P.; et al., 90f:34090**

Kulev, G. K. (*with* Baĭnov, D. D.) Investigation of the practical stability of the solutions of systems with impulse effect by the help of the comparison method. (Russian and Bulgarian summaries) **90i:34083**

Massarotti, Paolo Limit equations in the problem of stability for nonautonomous ordinary differential equations. (Italian. English summary) **90g:34056**

Matviĭchuk, K. S. Conditions for the technical stability of nonlinear evolution systems. (Russian) **90a:34115**

Maybee, John S. Qualitatively stable matrices and convergent matrices. **90h:34082**

Pantalienko, L. A. *see* **Garashchenko, F. G., (Not in MR)**

Redheffer, Ray (*with* Zhou, Zhi Ming) Sign semistability and global asymptotic stability. **90k:34062**

Skachkov, B. N. Conditions for the dissipativity of an nth order equation. (Russian) **90m:34112**

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Zhao, Jia Xiang Limiting equations and extreme stability. (Chinese. English summary) **90m:34113**

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Items with secondary classifications in 34D99

Andres, Ján Symmetry in a certain simply perturbed Hamiltonian system. (Russian and Uzbek summaries) (Not in MR)

Baĭnov, D. D. *see* **Milev, N. V., 90e:34012**

Cao, Qing Jie *see* **Xiong, Kai Qi, 90i:93103**

Djaferis, T. E. (*with* Hollot, C. V.) Parameter partitioning via shaping conditions for the stability of families of polynomials. **90k:93059**

Gao, Wei Bing *see* **Shi, Zhi Cheng, 90j:15030**

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Leonov, G. A. (*with* Morozov, A. V.) Global stability of forced motions of a fluid inside an ellipsoid. **90a:76096**

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Martynyuk, A. A. Hierarchical matrix Lyapunov function. **90e:34088**

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— (*with* Zhuravlev, V. P.) Periodic solutions of a linear nonhomogeneous system of first-order differential equations with a small parameter. (Ukrainian. Russian summary) **90d:34115**
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Baxley, John V. A singular nonlinear boundary value problem: membrane response of a spherical cap. **90a:34041**
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Kolesov, A. Yu. Instability of duck cycles that arise in the passage of an equilibrium state of a multidimensional relaxed system through a failure manifold. (Russian) (Not in MR)
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Kuznetsova, N. A. Asymptotic representations of solutions of a second-order degenerate differential equation. (Russian) (*see* **90a:00007**)
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Furumochi, Tetsuo Uniform asymptotic stability in perturbed differential equations. **90a:34103**
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Mo, Jia Qi The solution of corner layer behavior for a singularly perturbed semilinear vector differential equation. **90b:34090**

Ni, Shou Ping Diagonalization method for a singularly perturbed vector Robin problem. **90i:34086**

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Schiaffino, Andrea (*with* Valente, Vanda) Everted equilibria of a spherical cap: a singular perturbation method. (French summary) **90h:34089**

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Trushin, S. A. (*with* Khapaev, Mikhail Mikhaĭlovich; Sholin, G. V.) Investigation of singularly perturbed equations that describe nonlinear magneto-acoustic waves. **90j:34084**

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Wang, Huai Zhong (*with* Zhou, Qin De) On uniformly valid estimate of solutions to singular perturbation Robin boundary value problem. **90h:34090**

Zhao, Wei Li Singular perturbation of boundary value problems for second order nonlinear ordinary differential equations on infinite interval. I. **90e:34103**

Zhou, Qin De *see* **Wang, Huai Zhong, 90h:34090**

Zhukova, G. S. Minimal smoothness of coefficients in the construction of approximate solutions. **90f:34096**

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Alymkulov, K. A problem of singular perturbation with a limit cycle in a subsystem with fast time. (Russian) (Not in MR)

Al-Zanaidi, M. *see* **Singh, Mahendra Pal, 90d:45009**

Ariaratnam, S. T. (*with* Sri Namachchivaya, N.) Stochastically perturbed Hopf bifurcation. **90b:58235**

Arolska-Hekimova, Mariya At. (*with* Baĭnov, D. D.) Almost periodic solutions of singularly perturbed systems of differential equations with impulse effect. (Italian summary) **90d:34081**

— *see also* **Baĭnov, D. D.; et al., 90h:34022**

Bai, J. *see* **Zheng, Bai Zhe; et al.**, (Not in MR)

Baĭnov, D. D. (*with* Arolska-Hekimova, Mariya At.; Vel'ov, V. M.) Asymptotic procedure for solving boundary value problems for singularly perturbed linear impulsive systems. **90h:34022**

— *see also* **Arolska-Hekimova, Mariya At., 90d:34081**

Benoit, Eric Loupe variable. [A variable loupe] (*see* **90j:03116**)

Bibikov, Yu. N. Bifurcation of invariant tori for systems with degeneration. (Russian) **90b:58194**

Bigun, Ya. I. (*with* Fodchuk, V. I.) Investigation of a boundary value problem for functional-differential equations by the averaging method. (Russian) **90e:34130**

Brezzi, F. (*with* Capelo, A. C. S.; Gastaldi, L.) A singular perturbation analysis of reverse-biased semiconductor diodes. **90e:82116**

Canalis-Durand, M. (*with* Diener, Francine; Gaetano, Marc) Calcul des valeurs à canard à l'aide de MACSYMA. [Calculation of canard values using MACSYMA] **90k:65156**

Capelo, A. C. S. *see* **Brezzi, F.; et al., 90e:82116**

Čiegis, Raimondas Numerical solution of a problem with a small parameter multiplying the highest derivative and with a nonlocal condition. **90f:65131**

Collins, William D. Nonlinear optimal control problems and the method of multiple scales. **90e:93051**

Dai, Li Yi ★ Singular control systems. **90k:93002**

— State feedback and transfer matrix in singular systems. **90b:93043**

Diener, Francine (*with* Diener, Marc) Fleuves 1-2-3: mode d'emploi. [Rivers 1-2-3: their use] (*see* **90h:03005**)

— *see also* **Canalis-Durand, M.; et al., 90k:65156**

Diener, Marc Une initiation aux outils non standard fondamentaux. [An introduction to the fundamental tools of nonstandard analysis] (*see* **90j:03116**)

— *see also* **Diener, Francine**, (**90h:03005**)

Fodchuk, V. I. *see* **Bigun, Ya. I., 90e:34130**

Fomin, V. I. A singular differential equation with a small parameter in the case of a variable bounded operator coefficient. **90f:34005**

Fridman, È. M. *see* **Mikheev, Yu. V.; et al., 90c:34080**

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Gartland, Eugene C., Jr. Strong uniform stability and exact discretizations of a model singular perturbation problem and its finite-difference approximations. **90k:65151**

Gasparo, M. G. (*with* Macconi, M.) New initial-value method for singularly perturbed boundary-value problems. **90m:34041**

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Gheorghiu, C. I. On a linear singularly perturbed two-point boundary value problem. (*see* **90m:00030**)

Glizer, V. Ya. An iterative method for solving a differential equation in a Banach space with a small parameter multiplying the derivative. (Russian) **90a:34136**

Gol'dshteĭn, V. M. (*with* Sobolev, V. A.) A method for an approximate qualitative study of models in chemical kinetics and combustion. (Russian) **90k:80021**

Grujić, Ljubomir T. On the theory and synthesis of nonlinear nonstationary tracking singularly perturbed systems. **90d:93028**

— State-space domains of singularly perturbed systems. (*see* **90m:93003**)

Guo, Wen *see* **Lin, Peng Cheng, 90d:65148**

Haddad, A. H. *see* **Heck, B. S., 90j:34087**

Heck, B. S. (*with* Haddad, A. H.) Singular perturbation theory for piecewise-linear systems with random inputs. **90j:34087**

Hu, Y.-N. *see* **Khalil, H. K., 90b:93045**

Ikegami, Gikō Singular perturbations in foliations. **90g:58113**

Izobov, N. A. (*with* Makarov, E. K.) Lyapunov irregular linear systems with a parameter multiplying the derivative. **90g:34051**

Kalinin, A. I. Asymptotic optimization of linear singularly perturbed control systems. **90j:93064**

Kanellakopoulos, Ioannis *see* **Taylor, David G.; et al., 90c:93066**

Kath, W. L. (*with* Knessl, Charles; Matkowsky, B. J.) A variational approach to nonlinear singularly perturbed boundary-value problems. **90m:34044**

Kathirkamanayagan, M. (*with* Ladde, G. S.) Large scale singularly perturbed boundary value problems. **90i:34026**

Khalil, H. K. (*with* Hu, Y.-N.) Steering control of singularly perturbed systems: a composite control approach. **90b:93045**

— Feedback control of nonstandard singularly perturbed systems. **90i:93053**

Knessl, Charles *see* **Kath, W. L.; et al., 90m:34044**

Knobloch, H. W. A method for construction of invariant manifolds. (Russian summary) **90d:34087**

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Kolesov, A. Yu. (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. I. (Russian) **90d:34093**

— (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Asymptotic integration of the variational system of a multidimensional relaxation cycle. II. (Russian) **90d:34094**

Kolesov, Yu. S. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**

Krishnarayalu, M. S. (*with* Naidu, D. S.) Singular perturbation method for boundary value problems in two-parameter discrete control systems. **90e:93063**

Ladde, G. S. (*with* Sirisaengtaksin, O.) On near-optimum large-scale regulators. **90i:93010**

— *see also* **Kathirkamanayagan, M., 90i:34026**

Li, Cui Ping *see* **Zheng, Bai Zhe; et al.**, (Not in MR)

Li, Tzuu Hseng S. (*with* Sun, Yü I.) A new stabilizing state-feedback control of singular perturbation systems. **90b:93084**

Lin, Peng Cheng (*with* Guo, Wen) The uniformly convergent difference schemes for a singular perturbation problem of a selfadjoint ordinary differential equation. **90d:65148**

Lin, Ping A class of variational difference schemes for a singular perturbation problem. **90d:65149**

Lin, Su Rong *see* **Lin, Zong Chi, 90c:34052** *and* **90e:34039**

Lin, Wu Zhong *see* **Zhang, Jiu Chao, 90i:34034**

Lin, Zong Chi (*with* Lin, Su Rong) Singularly perturbed phenomena of semilinear second order systems. **90c:34052**

— (*with* Lin, Su Rong) Singular perturbation of boundary value problem for a vector fourth order nonlinear differential equation. **90e:34039**

Liu, Xing Quan Bifurcation of closed path of quasilinear singularly perturbed system. **90e:58134**

Lizana, Marcos Bounded, almost-periodic and periodic solutions of certain singularly perturbed systems with delay. **90e:34138**

Lobry, C. Les nouveaux Tartuffes. [The new Tartuffes] (*see* **90j:03116**)

Macconi, M. *see* **Gasparo, M. G., 90m:34041**

Makarov, E. K. *see* **Izobov, N. A., 90g:34051**

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Markowich, Peter A. (*with* Ringhofer, C. A.; Schmeiser, Christian) An asymptotic analysis of one-dimensional models of semiconductor devices. **90b:34024**

Martínez, E. C. Hidden time-scales in nonlinear systems. **90g:00027**

Matkowsky, B. J. *see* **Kath, W. L.; et al., 90m:34044**

McClamroch, N. Harris A singular perturbation approach to modeling and control of manipulators constrained by a stiff environment. (*see* **90m:93004**)

Miao, Shu Mei A class of singularly perturbed boundary value problems with a fixed time delay. (Chinese. English summary) **90h:34109**

— Singularly perturbed boundary value problems for a differential-difference equation with a small time delay. (Chinese. English summary) **90d:34130**

— A boundary value problem for a singularly perturbed third-order differential equation. (Chinese. English summary) **90i:34030**

— *see also* **Zhou, Qin De, 90d:34048**

Mickens, R. E. Construction of a perturbation solution for a nonlinear, singular oscillator equation. **90g:70027**

Mikheev, Yu. V. (*with* Sobolev, V. A.; Fridman, È. M.) Asymptotic analysis of digital control systems. **90c:34080**

Mishchenko, E. F. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**

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Nour Eldin, H. A. *see* **Stelter, R.**, (**90m:93003**)

Osipov, A. V. (*with* Pliss, V. A.) Relaxation oscillations in a system of Duffing type. **90g:34038**

Pashkovskaya, N. D. (*with* Sukhomlin, V. Z.; Shchitov, I. N.) Resonance in quasilinear systems with asymptotically constant coefficients. (Russian) **90c:70029**

Pliss, V. A. *see* **Osipov, A. V., 90g:34038**

Ringhofer, C. A. *see* **Markowich, Peter A.; et al., 90b:34024**

Rozov, N. Kh. *see* **Kolesov, A. Yu.; et al., 90d:34093** *and* **90d:34094**

Ru, Xue Ping Boundary and interior layer with nonexponential decay for second order autonomous singularly perturbed system. **90m:34052**

Safonov, V. F. Normal forms and regularization of nonlinear singularly perturbed evolution equations. **90c:34067**

Sari, Nadir Sur l'équation du pendule simple forcé. [On the equation of the simple forced pendulum] (*see* **90j:03116**)

Schmeiser, Christian *see* **Markowich, Peter A.; et al., 90b:34024**
Shchitov, I. N. *see* **Pashkovskaya, N. D.; et al., 90c:70029**
Singh, Mahendra Pal (*with* Al-Zanaidi, M.) Singular perturbations in integral equations. **90d:45009**
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Skorokhod, A. V. Dynamical systems that are subject to the influence of "rapid" dynamical systems with feedback. (Russian) **90b:34067**
Sobolev, V. A. Integral manifolds, stability and decomposition of singularly perturbed systems in Banach space. **90f:34102**
— *see also* **Mikheev, Yu. V.; et al., 90c:34080** *and* **Gol′dshteĭn, V. M., 90k:80021**
Spong, Mark W. Adaptive control of flexible joint manipulators. **90i:93085**
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Stelter, R. (*with* Nour Eldin, H. A.) Application of singular perturbation for modelling and model reduction in engineering problems. (*see* **90m:93003**)
Strizhkov, V. A. An algorithm for constructing a regularized asymptotic solution of a nonlinear singularly perturbed boundary value problem in the resonance case. (Russian) **90a:34051**
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Surla, K. *see* **Uzelac, Zorica, 90m:65160**
Taylor, David G. (*with* Kokotović, Petar V.; Marino, Riccardo; Kanellakopoulos, Ioannis) Adaptive regulation of nonlinear systems with unmodeled dynamics. **90c:93066**
Terëkhin, M. T. Bifurcation of singularly perturbed systems of second-order differential equations. (Russian) (*see* **90i:00001**)
— (*with* Vansovich, M. O.) Existence of a nonzero periodic solution of a singularly perturbed system of ordinary differential equations. (Russian) **90j:34057**
Uzelac, Zorica (*with* Surla, K.) A family of quadratic spline difference schemes for a singularly perturbed boundary value problem. **90m:65160**
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— Singular perturbation solutions to boundary value problems for a class of second-order nonlinear differential-difference equations. (Chinese) **90e:34131**
— Singular pertubation solution of boundary value problem for a second-order differential-difference equation. **90a:34152**
Yunusov, M. Yu. Interior boundary layer in problems with conjugation. **90i:34029**
Zaghrout, Afaf A. S. (*with* Aly, M. M.) On linear singular initial value problem. **90i:34006**
Zhang, Han Lin On the singular perturbation of a nonlinear ordinary differential equation with two parameters. **90h:34036**
Zhang, Jiu Chao (*with* Lin, Wu Zhong) Qualitative analysis of a boundary value problem for a singularly perturbed semilinear equation. (Chinese. English summary) **90i:34034**
Zhao, Wei Li Singularly perturbed nonlinear boundary value problems on infinite interval. **90g:34023**
Zheng, Bai Zhe (*with* Bai, J.; Niu, Yi Zheng; Li, Cui Ping) The solution of vibration equation of piano string by singular perturbation method. (Not in MR)
Zhou, Qin De (*with* Miao, Shu Mei) Nonlinear singularly perturbed boundary value problems. **90d:34048**

34E20 Singular perturbations, turning point theory, WKB-methods

Abduvaliev, A. O. (*with* Rozov, N. Kh.; Sushko, V. G.) Asymptotic representations of solutions of some singularly perturbed boundary value problems. **90d:34117**
Åkerstedt, Hans O. Analytic solutions of a fourth-order differential equation with a second-order turning point. **90d:34118**
Chernyavskaya, N. A. (*with* Shuster, L. A.) On the asymptotic behavior of the solutions of the homogeneous Sturm-Liouville equation. (Russian. Kazakh summary) **90g:34061**
— (*with* Shuster, L. A.) The WKB method. (Russian) **90k:34065**
Deng, Shou An *see* **Zhou, Qin De; et al., 90h:34093**
Du, Jing De Singularly perturbed nonlinear Robin problems with turning points. (Chinese. English summary) **90h:34091**
Gingold, H. (*with* Hsieh, Po-Fang) On asymptotic solutions of a Hamiltonian system with several turning points. **90k:34066**
Grimm, L. J. (*with* Harris, W. A., Jr.) Solutions of a singularly perturbed differential system with turning points. **90m:34123**
Gu, Zhong-Mei (*with* Nefëdov, N. N.; O'Malley, R. E., Jr.) On singular singularly perturbed initial value problems. **90c:34062**
Harris, W. A., Jr. *see* **Grimm, L. J., 90m:34123**
Hsieh, Po-Fang *see* **Gingold, H., 90k:34066**
Jiang, Fu Ru Boundary value problems for ordinary differential equations with several multiple turning points. **90a:34128**
— On necessary conditions for resonance in turning point problems for ordinary differential equations. **90d:34119**
Karasëv, M. V. (*with* Pereskokov, A. V.) The quantization rule for equations of a self-consistent field with a local rapidly decreasing nonlinearity. **90j:34085**
Li, Yong^6 (*with* Zhou, Qin De) Asymptotic expansions of solutions to second-order quasilinear singularly perturbed equations with turning points. (Chinese. English summary) **90k:34067**
— *see also* **Zhou, Qin De; et al., 90h:34093**
van Loon, P. M. *see* **Mattheij, R. M. M., 90b:34091**
Mattheij, R. M. M. (*with* van Loon, P. M.) A new approach to turning point theory. **90b:34091**
Meyer, R. E. A simple explanation of the Stokes phenomenon. **90f:34097**
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O'Malley, R. E., Jr. *see* **Gu, Zhong-Mei; et al., 90c:34062**
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Ru, Xue Ping Boundary and interior layers with nonexponential decay for a second order autonomous singularly perturbed system. **90a:34129**
Shkil′, N. I. (*with* Zavizion, G. V.) Asymptotic solutions of a second-order differential equation with slowly varying coefficients with a turning point. (Russian) **90e:34104**
Shuster, L. A. *see* **Chernyavskaya, N. A., 90g:34061** *and* **90k:34065**
Sushko, V. G. *see* **Abduvaliev, A. O.; et al., 90d:34117**
Voznyuk, A. V. Asymptotic solution of a problem with one and two turning points. (Russian) **90k:34068**
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Zavizion, G. V. *see* **Shkil′, N. I., 90e:34104**
Zhao, Wei Li Singularly perturbed boundary value problems for second order nonlinear ordinary differential equations having weakly discontinuous reduced solutions. **90d:34120**
Zhou, Qin De (*with* Wang, Huai Zhong) A uniformly valid estimate for solutions to singularly perturbed boundary value problems with higher-order turning points. (Chinese. English summary) **90h:34092**
— (*with* Deng, Shou An; Li, Yong^6) Problems with higher-order turning points. (Chinese. English summary) **90h:34093**
— *see also* **Li, Yong^6, 90k:34067**

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Anyanwu, Donatus Uzodinma Uniform asymptotic solutions of second-order linear ordinary differential equations with singular points. I. Formal theory. **90c:34055**
— Uniform asymptotic solutions of second-order linear ordinary differential equations with singular points. II. Some expansions. **90c:34056**
— Uniform asymptotic solutions of boundary and eigenvalue problems for a second-order ordinary differential equation with singular and turning points. **90c:34057**
Ari, Nasit (*with* Gorman, Arthur D.) Time-evolution of a caustic. **90i:58192**
Aripov, M. M. ★ Методы эталонных уравнений для решения нелинейных краевых задач. (Russian) [Methods of standard equations for solving nonlinear boundary value problems] **90d:35153**
— (*with* Èshmatov, D. Sh.) On WKB-solutions of a generalized equation of Emden-Fowler type. (Russian) **90e:34096**
Arolska-Hekimova, Mariya At. (*with* Baĭnov, D. D.) Almost periodic solutions of singularly perturbed systems of differential equations with impulse effect. **90h:34059**
Ashkenazi, Max (*with* Chow, Shui-Nee) Normal forms near critical points for differential equations and maps. **90f:58126**
Baĭnov, D. D. *see* **Arolska-Hekimova, Mariya At., 90h:34059**
Brown, David L. (*with* Lorenz, Jens) A high-order method for stiff boundary value problems with turning points. **90a:34030**
Byatt-Smith, J. G. B. The asymptotic solution of a connection problem of a second order ordinary differential equation. **90b:34082**
Chow, Shui-Nee *see* **Ashkenazi, Max, 90f:58126**
Deng, Shou An *see* **Li, Yong^6; et al., 90j:34030**
Dunster, T. M. Uniform asymptotic expansions for Whittaker's confluent hypergeometric functions. **90e:33012**
Èshmatov, D. Sh. *see* **Aripov, M. M., 90e:34096**
Gorman, Arthur D. *see* **Ari, Nasit, 90i:58192**
Kachalov, V. I. (*with* Lomov, S. A.) Analytic properties of solutions of differential equations with singular points. **90b:34089**
Li, Yong^6 (*with* Zhou, Qin De; Deng, Shou An) Asymptotic behavior of solutions for singularly perturbed boundary value problems with high order turning points. **90j:34030**
Lomov, S. A. *see* **Kachalov, V. I., 90b:34089**
Lorenz, Jens *see* **Brown, David L., 90a:34030**
Murayama, Yoshimasa Supersymmetric Wentzel-Kramers-Brillouin (SWKB) method. **90h:81035**
Shegaĭ, L. N. Spectral problems that are connected with a differential equation with a turning point. (Russian) **90j:34043**
Shkil′, N. I. (*with* Zavizion, G. V.) Asymptotic representation of solutions of systems of linear differential equations with a small parameter multiplying the derivative in the presence of a turning point. (Russian. English summary) (Not in MR)
Voznyuk, A. V. Higher asymptotic expansions of solutions of the Weber equation in transition domains. (Russian) **90m:34119**
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Zhou, Qin De *see* **Li, Yong^6; et al., 90j:34030**

34E99 None of the above, but in this section

Barabanov, N. E. Criteria for the global asymptotics of stationary sets of systems of differential equations with a hysteresis nonlinearity. **90f:34098**
Eastham, M. S. P. The asymptotic solution of higher-order differential equations with small final coefficient. **90h:34094**
Krechetov, G. S. Asymptotic properties of the solutions of differential equations with unbounded damping. (Russian) (Not in MR)

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Băbescu, Gh. *see* **Reghiş, M., 90g:47079**
Barabanenkov, Yu. N. (*with* Ozrin, V. D.; Kalinin, M. I.) ★ Асимптотический метод в теории стохастических линейных динамических систем. (Russian) [The asymptotic method in the theory of stochastic linear dynamical systems] **90k:34069**
Burim, V. M. (*with* Samozdran, A. O.) Asymptotic behavior of the solution of the Cauchy problem for a class of *n*th-order linear equations. (Ukrainian. Russian summary) **90a:34009**
Elgondyev, K. K. *see* **Samoĭlenko, V. Gr., 90m:34017** *and* **90m:93085**
Kalinin, M. I. *see* **Barabanenkov, Yu. N.; et al., 90k:34069**
Kostenko, K. S. Asymptotic behavior of solutions of fourth-order linear ordinary differential equations. (Ukrainian. Russian summary) **90i:34011**
Lange, Charles G. (*with* Smith, Donald Ray) Singular perturbation analysis of integral equations. **90m:45001**
(McFaden, H. H.) *see* **Skorokhod, A. V., 90i:60038**

zrin, V. D. *see* **Barabanenkov, Yu. N.; et al., 90k:34069**
eghiş, M. (*with* Băbescu, Gh.) Cosine and sine functions valued in Banach algebras. III. Asymptotic behaviour of solutions of differential equation $\ddot{x} = Ax$. **90g:47079**
amoĭlenko, V. Gr. (*with* Elgondyev, K. K.) Investigation of linear differential equations with impulse action in $\mathbf{R}^2$. (Russian) **90m:34017**
(*with* Elgondyev, K. K.) Asymptotic integration of weakly nonlinear differential equations with impulse action. (Russian) **90m:93085**
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korokhod, A. V. ★ Asymptotic methods in the theory of stochastic differential equations. **90i:60038**
lemrod, Marshall The LaSalle invariance principle in infinite-dimensional Hilbert space. **90g:34067**
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sukamoto, Ichiro On solutions of $x'' = -e^{\alpha\lambda t}x^{1+\alpha}$. **90f:34019**
oskresenskiĭ, E. V. The asymptotic behavior and a homeomorphism of solutions of differential equations on manifolds. **90e:34077**

4F05 Equations and systems with randomness [see also 60H10, 93Exx]

ntonov, I. L. Boundedness conditions with probability one of phase trajectories of a linear oscillator under random parametric excitation. (Russian) **90c:34063**
arabanenkov, Yu. N. (*with* Ozrin, V. D.; Kalinin, M. I.) ★ Асимптотический метод в теории стохастических линейных динамических систем. (Russian) [The asymptotic method in the theory of stochastic linear dynamical systems] **90k:34069**
obrowski, Dobiesław ★ Wstęp do losowych równań różniczkowych zwyczajnych. (Polish) [Introduction to random ordinary differential equations] **90b:34092**
ai, Guo Qiang *see* **Lin, Y. K., 90k:34071**
itterman, Moshe (*with* Shrager, Richard I.; Weiss, George H.) Influence of noise on systems described by a Mathieu equation. **90j:34086**
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eck, B. S. (*with* Haddad, A. H.) Singular perturbation theory for piecewise-linear systems with random inputs. **90j:34087**
lolov, M. (*with* Kozobrod, V. N.) Periodic random perturbations of differential equations with a parameter. (Russian. Tajiki summary) **90b:34093**
umarie, Guy New results on stochastic systems excited by white noise powers. **90e:34105**
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husainov, D. Ya. (*with* Kozhametov, A. T.) Optimization of estimates for initial perturbations in linear stochastic systems. (Russian) **90i:34087**
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ravvaritis, D. (*with* Stavrakakis, Nikolaos) An existence theorem for nonlinear random differential inclusions. **90k:34070**
reith, Kurt Correlation effects for stochastic zeros of Sturm-Liouville equations. **90e:34106**
evoshich, O. L. Minimax estimation for solutions of stochastic differential equations according to an entropy criterion. (Russian) **90f:34099**
in, Y. K. (*with* Cai, Guo Qiang) Vibration of nonlinear systems under additive and multiplicative random excitations. **90k:34071**
asimov, K. A. On the theory of the stability of systems with random parameters. (Russian) (Not in MR)
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– *see also* **Appell, Jürgen; et al., 90a:45007**

34G20 Nonlinear equations [see also 47Hxx]

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– Application of Rothe's method to semilinear hyperbolic equations. **90k:34077**
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– (*with* Plazzi, P.) On some abstract degenerate problems of parabolic type. II. The nonlinear case. **90b:34095b**
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– Existenzsätze für gewöhnliche Differentialgleichungen in geordneten Banachräumen. [Existence theorems for ordinary differential equations in ordered Banach spaces] **90i:34096**
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— (*with* Kostadinov, S. I.; Nguyễn Hồng Thái; Zabreĭko, P. P.) Existence of integral manifolds for impulsive differential equations in a Banach space. **90i:34070**
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— (*with* Oharu, Shinnosuke; Takahashi, Tadayasu) Semilinear Hille-Yosida theory: the approximation theorem and groups of operators. **90i:47072**
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— Anti-periodic solutions of some nonlinear evolution equations. **90f:47097**
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Liu, Kang Sheng (*with* Huang, Fa Lun; Chen, Goong) Exponential stability analysis of a long chain of coupled vibrating strings with dissipative linkage. **90k:35026**
Mal'kov, K. V. On the construction of stable and stabilizing systems with distributed parameters. **90m:93097**
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Piskarëv, S. I. Convergence of difference schemes in the solution of nonlinear parabolic equations. **90a:65191**
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/u, Jian Hong Semigroup and representation for a class of partial differential equations with infinite delay. (*see* **90j:00016**)
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4G99 None of the above, but in this section

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4H05 Control problems [see also 49–XX, 93–XX]

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oebel, Manfred (*with* Raitums, Uldis) On necessary optimality conditions for systems governed by a two point boundary value problem. I. **90i:49019**
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la, Zhu Wu (*with* Zong, Shu Qiang) A new control method for systems with pure time-delay. (Chinese. English summary) (Not in MR)
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Razzaghi, Mohsen (*with* Razzaghi, Mehdi) Solution of linear two-point boundary value problems and optimal control of time-varying systems by shifted Chebyshev approximations. (Not in MR)
Rizun, V. I. *see* **Glizer, V. Ya.; et al.**, **90j:93050**
Samsonov, S. P. An optimal control problem with different quality functionals. (Russian) **90f:93032**
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Wyderka, Zdzisław On stability and stabilization of linear systems with measures as coefficients. **90e:93075**
Yartsev, Yu. P. *see* **Glizer, V. Ya.; et al.**, **90j:93050**
Zolotarskiĭ, I. A. (*with* Toponogov, V. A.) The effectiveness of nonstationary control for a class of catalytic reactions. (Russian) **90k:92090**
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34Kxx Functional-differential and differential-difference equations , with or without deviating (or retarded) arguments

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34K05 General theory

Abdullaev, A. R. (*with* Burmistrova, A. B.) Reducibility and properties of solutions of linear functional-differential equations. (Russian) (*see* **90k:00017**)
Aleĭdarov, S. M. Existence and uniqueness of solutions of power growth of an equation with deviating argument. (Russian) **90e:34119**
Arino, O. (*with* Győri, I.) Asymptotic integration of delay differential systems. **90e:34120**
Balachandran, Krishnan An existence theorem for nonlinear delay differential equations. **90e:34121**
Beklaryan, L. A. On the reducibility of a differential equation with deviating argument to an equation with constant commensurable deviations. **90a:34143**
Berezanskiĭ, L. M. (*with* Larionov, A. S.) Positivity of the Cauchy matrix of a linear functional-differential equation. **90a:34144**
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34K10 Boundary value problems

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34K15 Qualitative theory

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Zhuikova, A. G. *see* **Khusainov, D. Ya., 90f:34120** *and* **90k:34100**

Items with secondary classifications in 34K20

Amemiya, Takashi Delay-independent stability of higher-order systems. **90j:34106**
Barabanov, N. E. Criteria for the global asymptotics of stationary sets of systems of differential equations with a hysteresis nonlinearity. **90f:34098**
Barmish, B. Ross (*with* Shi, Zhi Cheng) Robust stability of perturbed systems with time delays. **90m:93110**
Beretta, Edoardo (*with* Capasso, V.; Rinaldi, F.) Global stability results for a generalized Lotka-Volterra system with distributed delays: applications to predator-prey and to epidemic systems. **90a:92037**
Berezanskiĭ, L. M. (*with* Larionov, A. S.) Positivity of the Cauchy matrix of a linear functional-differential equation. **90a:34144**
Blythe, S. P. *see* **Jones, A. E.; et al., 90a:92044**
Boese, F. G. The stability chart for the linearized Cushing equation with a discrete delay and with gamma-distributed delays. **90f:92022**
Burton, Theodore Allen (*with* Hutson, V.) Repellers in systems with infinite delay. **90d:58141**
Busenberg, Stavros (*with* Hill, L. Thomas) Construction of differential equation approximations to delay differential equations. **90h:34018**
Capasso, V. *see* **Beretta, Edoardo; et al., 90a:92037**
Datko, R. A rank-one perturbation result on the spectra of certain operators. **90h:93090**
Emel′yanov, S. V. (*with* Korovin, S. K.; Mamedov, I. G.; Nersisyan, A. L.) Stabilization of uncertain dynamic delayed processes by binary control systems. (Russian summary) **90h:93092**
Fernandes, M. L. (*with* Zanolin, Fabio) Existence and uniqueness results for periodic solutions of differential systems with application to the competing species problem. **90e:92079**
Fu, Minyue (*with* Olbrot, Andrzej W.; Polis, Michael P.) Robust stability for time-delay systems: the edge theorem and graphical tests. **90j:93096**
Gopalsamy, K. (*with* Zhang, Bing Gen) On delay differential equations with impulses. **90d:34155**
Gu, Guoxiang (*with* Lee, E. Bruce) Stability testing of time delay systems. **90m:93106**
Gurney, W. S. C. *see* **Jones, A. E.; et al., 90a:92044**
Győri, I. Interaction between oscillations and global asymptotic stability in delay differential equations. **90i:34105**
Hatvani, L. Asymptotic stability of equilibria of damped mechanical systems. **90k:70015**
He, Meng Xing A Lyapunov-type theorem and its inverse. (Chinese. English summary) **90f:34085**
— Abstract functional-differential equations—Lyapunov functionals and a comparison theorem. (Chinese. English summary) (Not in MR)
Hill, L. Thomas *see* **Busenberg, Stavros, 90h:34018**
Hutson, V. *see* **Burton, Theodore Allen, 90d:58141**
Jones, A. E. (*with* Nisbet, R. M.; Gurney, W. S. C.; Blythe, S. P.) Period to delay ratio near stability boundaries for systems with delayed feedback. **90a:92044**
Kappel, F. (*with* Salamon, Dietmar) On the stability properties of spline approximations for retarded systems. **90a:34174**
Kashchenko, S. A. Complex periodic solutions of a system of differential-difference equations with small diffusion. **90f:34113**
Khusainov, D. Ya. Estimates for the absolute stability of a control system with deviating argument of neutral type. (Russian) **90m:34160**
Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 90h:93092**
Kuo, Tê Shêng *see* **Su, Te Jen; et al., 90h:93093** *and* **90h:93094**
Larionov, A. S. *see* **Berezanskiĭ, L. M., 90a:34144**
Lee, E. Bruce *see* **Gu, Guoxiang, 90m:93106**
Lim, Cheng-Chew (*with* Teo, Kok-Lay) Mean-square stability of stochastic differential time-lag systems. (Not in MR)
Ma, Wan Biao *see* **Si, Li Geng, 90m:34024**
MacDonald, N. ★ Biological delay systems: linear stability theory. **90h:92020**
Mamedov, I. G. *see* **Emel′yanov, S. V.; et al., 90h:93092**
Murakami, Satoru (*with* Naito, Toshiki) Fading memory spaces and stability properties for functional-differential equations with infinite delay. **90g:34070**
Naito, Toshiki *see* **Murakami, Satoru, 90g:34070**
Nersisyan, A. L. *see* **Emel′yanov, S. V.; et al., 90h:93092**
Nisbet, R. M. *see* **Jones, A. E.; et al., 90a:92044**
Olbrot, Andrzej W. *see* **Fu, Minyue; et al., 90j:93096**
Parrott, Mary E. Positivity and a principle of linearized stability for delay-differential equations. **90b:34110**
Polis, Michael P. *see* **Fu, Minyue; et al., 90j:93096**
Rinaldi, F. *see* **Beretta, Edoardo; et al., 90a:92037**
Salamon, Dietmar *see* **Kappel, F., 90a:34174**
Sasagawa, T. Mean-square asymptotic stability of linear hereditary systems. **90b:93111**
Shi, Zhi Cheng *see* **Barmish, B. Ross, 90m:93110**
Si, Li Geng (*with* Ma, Wan Biao) Reverse-direction time-delay differential inequalities and their applications. (Chinese) **90m:34024**
Stépán, G. On the generalization of stability criteria of linear dynamical systems. (Russian summary) **90d:70052**
Su, Te Jen (*with* Sun, Yü I.; Kuo, Tê Shêng) Robust stabilization of observer-based linear constrained uncertain time-delay systems. **90h:93094**
— (*with* Kuo, Tê Shêng; Sun, Yü I.) Robust stabilization of linear constrained uncertain time delay systems. **90h:93093**
Sun, Yü I. *see* **Su, Te Jen; et al., 90h:93093** *and* **90h:93094**
Teo, Kok-Lay *see* **Lim, Cheng-Chew**, (Not in MR)
Weng, Pei Xuan The asymptotic behavior of solutions of a class of second-order functional-differential equations. (Chinese. English summary) **90f:34127**
Wu, Jian Hong The structure of Lyapunov functions and the global stability of a linear iterative system with variable coefficients. (Chinese. English summary) **90b:39009**
Yong, Jiong Min Stabilization of linear systems by time-delay feedback controls. II. **90a:93086**
Zanolin, Fabio *see* **Fernandes, M. L., 90e:92079**
Zhang, Bing Gen *see* **Gopalsamy, K., 90d:34155**

34K25 Asymptotic theory

Aitdads, E. (*with* Arino, O.) A nonlinear delay differential equation whose solutions are asymptotically sums of periodic functions. **90f:34123**
Arino, O. *see* **Aitdads, E., 90f:34123**
Azbelev, N. V. (*with* Berezanskiĭ, L. M.; Chistyakov, Aleksandr Vladimirovich) On the investigation of the asymptotic properties of equations with aftereffect. (Russian) **90m:34152**
Balachandran, Krishnan *see* **Thandapani, E., 90m:34155**
Berezanskiĭ, L. M. Preservation of an exponential estimate for solutions of a perturbed linear functional-differential equation. (Russian) **90f:34124**
— *see also* **Azbelev, N. V.; et al., 90m:34152**
Cecchi, Mariella (*with* Marini, Mauro) Asymptotic decay of solutions of a nonlinear second-order differential equation with deviating argument. **90d:34154**
Chistyakov, Aleksandr Vladimirovich *see* **Azbelev, N. V.; et al., 90m:34152**
Fodchuk, V. I. (*with* Yakimov, I. V.) Asymptotic behavior of solutions of a singularly perturbed system of differential equations with delay. **90g:34077**
Futák, Ján Asymptotic behavior of solutions of functional-differential equations. (Russian) (*see* **90d:34003**)
Gaĭsenyuk, B. S. (*with* Shafranskaya, N. I.; Yarymbash, Z. E.) Asymptotic methods for constructing aperiodic and oscillatory processes in nonlinear systems with delay. (Russian) **90f:34125**
Gopalsamy, K. Global attractivity in a neutral logistic equation. **90k:34103**
— (*with* Zhang, Bing Gen) On delay differential equations with impulses. **90d:34155**
Grace, S. R. (*with* Lalli, B. S.) Asymptotic and oscillatory behavior of solutions of a class of second order differential equations with deviating arguments. **90m:34153**
Grebenshchikov, B. G. Asymptotic behavior of a solution of a system of functional-difference linear equations. (Russian) (*see* **90h:00010**)
Huang, Fa Lun On linear autonomous functional-differential equations with infinite delay. **90a:34172**
Huang, Yong Kang On a system of differential equations alternately of advanced and delay type. **90m:34154**
Huang, Zhen Xun Exponential estimation of solutions to the equation $\dot{x}(t) = f(t, x(h(t)))$. (Chinese) **90g:34078**
Jaroš, Jaroslav (*with* Kusano, Takaŝi) Asymptotic behavior of nonoscillatory solutions of nonlinear functional-differential equations of neutral type. **90i:34115**
Khusainov, D. Ya. An exponential estimate for solutions of linear systems with delay with arbitrary deviation of the argument. (Russian) **90i:34116**
Kusano, Takaŝi *see* **Jaroš, Jaroslav, 90i:34115**
Lalli, B. S. *see* **Grace, S. R., 90m:34153**

Latipov, Kh. R. (*with* Nosirov, F. U.) Construction of asymptotic solutions for some gyroscopic systems with delay. (Russian) **90a:34173**
Marini, Mauro *see* **Cecchi, Mariella, 90d:34154**
Mashnikov, S. A. Construction of an asymptotic expansion for the solution of a linear system of difference and differential-difference equations with a small delay, omitting the boundary layer. (Russian) (*see* **90a:00008**)
Mihalíková, Božena Asymptotic properties of solutions of differential systems with deviating argument. **90k:34104**
Milota, J. Asymptotic behaviour of parabolic equations with infinite delay. **90i:34117**
Nosirov, F. U. *see* **Latipov, Kh. R., 90a:34173**
Omarova, A. M. Asymptotic expansions of solutions of differential-difference equations with small delays. (Russian) (*see* **90a:00004**)
Rusnák, Marián (*with* Šoltés, Vincent) Asymptotic properties of solutions of the *n*th order differential equation with delayed argument. (Russian summary) **90h:34127**
Shafranskaya, N. I. *see* **Gaĭsenyuk, B. S.; et al., 90f:34125**
Šoltés, Vincent *see* **Rusnák, Marián, 90h:34127**
Staraya, E. V. Asymptotic representation of solutions of systems of second-order differential equations with deviating argument. **90f:34126**
Thandapani, E. (*with* Balachandran, Krishnan) Asymptotic behaviour of solutions of functional-differential equations. **90m:34155**
Weng, Pei Xuan The asymptotic behavior of solutions of a class of second-order functional-differential equations. (Chinese. English summary) **90f:34127**
Wu, Jian Hong On J. R. Haddock's conjecture. **90i:34118**
Xu, Yuan Tong The asymptotic behavior of solutions to delay logistic equations involving impulses. (Chinese. English summary) **90m:34156**
— Asymptotic behavior of nonoscillatory solutions of higher-order neutral equations. **90g:34079**
Yakimov, I. V. *see* **Fodchuk, V. I., 90g:34077**
Yarymbash, Z. E. *see* **Gaĭsenyuk, B. S.; et al., 90f:34125**
Yu, Yuan Hong Asymptotic properties of solutions to *n*th-order nonlinear functional-differential equations. (Chinese. English summary) (*see* **90j:34001**)
Zhang, Bing Gen *see* **Gopalsamy, K., 90d:34155**
Zhang, Zhen Guo Asymptotic and nonoscillatory behavior of *n*th-order nonlinear functional-differential equations. (Chinese. English summary) **90g:34080**

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Baĭnov, D. D. (*with* Myshkis, A. D.; Zakhariev, Andreĭ) Oscillatory and asymptotic properties of the solutions of linear autonomous equations of neutral type with distributed delay. **90f:34108**
Burton, Theodore Allen (*with* Hatvani, L.) On nonuniform asymptotic stability for nonautonomous functional-differential equations. **90k:34098**
Chukwu, E. N. (*with* Simpson, Henry C.) Perturbations of nonlinear systems of neutral type. **90k:34082**
Drăgan, Vasile (*with* Halanay, A.) Asymptotic expansions for coupled difference and differential-difference equations with small delays. (Russian summary) **90b:34083**
Foltyńska, Izabela Functional integrability of solutions to the system of *n* nonlinear differential equations with deviating argument. **90i:34098**
Gopalsamy, K. (*with* Grove, E. A.; Ladas, G.) Neutral delay differential equations with variable delays. **90m:34136**
Grace, S. R. (*with* Lalli, B. S.) Oscillation and asymptotic behavior of forced nonlinear delay differential equations. **90e:34134**
— On the oscillatory and asymptotic behavior of even order nonlinear differential equations with retarded arguments. **90d:34134**
— (*with* Lalli, B. S.) Asymptotic and oscillatory behavior of *n*th order forced functional-differential equations. **90e:34135**
— Oscillatory and asymptotic behavior of damped functional-differential equations. **90k:34091**
— (*with* Lalli, B. S.) Oscillation and asymptotic behavior of certain second order neutral differential equations. (Serbo-Croatian summary) **90h:34115**
Grove, E. A. *see* **Gopalsamy, K.; et al., 90m:34136**
Győri, I. (*with* Stavroulakis, I. P.) Positive solutions of functional-differential equations. (Italian summary) **90c:34068**
Halanay, A. *see* **Drăgan, Vasile, 90b:34083**
Hatvani, L. *see* **Burton, Theodore Allen, 90k:34098**
Hosono, Yuzo (*with* Mimura, Masayasu) Localized cluster solutions of nonlinear degenerate diffusion equations arising in population dynamics. **90f:35107**
Huang, Wen Zhang *see* **Zheng, Zu Xiu; et al., 90m:34151**
Khenkin, G. M. *see* **Polterovich, V. M., 90d:90029** *and* **90m:90086**
Korenevskiĭ, D. G. (*with* Mazko, A. G.) A compact form of an algebraic criterion for absolute (with respect to delay) stability of solutions of linear differential-difference equations. **90i:34110**
Ladas, G. *see* **Gopalsamy, K.; et al., 90m:34136**
Lalli, B. S. *see* **Grace, S. R., 90e:34134; 90e:34135** *and* **90h:34115**
Latipov, Kh. R. (*with* Nosirov, F. U.) ★ О влиянии запаздывания на нелинейные системы. (Russian) [The effect of delay on nonlinear systems] **90f:34074**
Li, Yu Mei Second-order systems of differential-difference equations with advanced arguments. (Chinese. English summary) **90b:34104**
Lin, Yi Zhong The bounded solution of a class of differential-difference equation of advanced type and its asymptotic behavior. **90g:34073**
Mazko, A. G. *see* **Korenevskiĭ, D. G., 90i:34110**
Memory, Margaret C. Bifurcation and asymptotic behavior of solutions of a delay-differential equation with diffusion. **90m:35029**
Mimura, Masayasu *see* **Hosono, Yuzo, 90f:35107**
Morchało, J. Asymptotic behaviour of the solutions of differential-difference equations. **90c:34078**
Myshkis, A. D. *see* **Baĭnov, D. D.; et al., 90f:34108**
Nosirov, F. U. *see* **Latipov, Kh. R., 90f:34074**
Polterovich, V. M. (*with* Khenkin, G. M.) An evolutionary model of the interaction between the processes of creation of technology and acquisition of technology. (Russian) **90d:90029**
— (*with* Khenkin, G. M.) An evolution model of economic growth. (Russian) **90m:90086**
Ruan, Jiong Oscillatory and asymptotic behaviour of *n* order neutral functional-differential equations. **90i:34106**
Simpson, Henry C. *see* **Chukwu, E. N., 90k:34082**
Stavroulakis, I. P. *see* **Győri, I., 90c:34068**
Trench, William F. Efficient application of the Schauder-Tychonoff theorem to functional perturbations of $x^{(n)} = 0$. **90d:39010**
— General functional-differential systems with asymptotically constant solutions. **90e:34141**
Ventura, A. A new approach to the method of nonlinear variation of parameters for a perturbed nonlinear neutral functional-differential equation. **90f:34105**
Wu, Jian Hong Convergence of monotone dynamical systems with minimal equilibria. **90j:58130**
Xu, Jun Tao Singular perturbation solutions of boundary value problems for second-order quasilinear differential-difference equations. (Chinese. English summary) **90e:34132**
Yan, Wei Ping The oscillatory and asymptotic behavior of solutions to a class of higher-order functional-differential equations. (Chinese) **90d:34146**
Zakhariev, Andreĭ *see* **Baĭnov, D. D.; et al., 90f:34108**
Zhang, Shu Nian *see* **Zheng, Zu Xiu; et al., 90m:34151**
Zheng, Zu Xiu (*with* Zhang, Shu Nian; Huang, Wen Zhang) On the dependence of behaviors of solutions upon delays in dynamical systems. **90m:34151**

34K30 Equations in abstract spaces

Aleĭdarov, S. M. Asymptotic behavior of the solutions of an equation with linear deviation of the argument in a Hilbert space. (Russian) **90b:34109**
Azbelev, N. V. (*with* Rakhmatullina, L. F.) An abstract functional-differential equation. (Russian) **90e:34152**
Dyson, Janet (*with* Villella-Bressan, Rosanna) On the propagation of solutions of a delay equation. **90g:34081**
He, Meng Xing Abstract functional-differential equations—Lyapunov functionals and a comparison theorem. (Chinese. English summary) (Not in MR)
Kim, Yong Ho Representation of solutions of neutral functional-differential equations and spline approximations. (Korean. English summary) **90m:34157**
Papageorgiou, Nikolaos S. Contributions to the theory of functional-differential inclusions in Banach spaces. (Serbo-Croatian summary) **90e:34153**
Parrott, Mary E. Positivity and a principle of linearized stability for delay-differential equations. **90b:34110**
Rakhmatullina, L. F. *see* **Azbelev, N. V., 90e:34152**
Šedová, Ľubica Parabolic equations with deviating argument. (Russian summary) **90j:34105**
Shin, Jong Son Existence of solutions and Kamke's theorem for functional-differential equations in Banach spaces. **90i:34119**
Vernole, Paola A linear differential problem with discrete and distributed delay terms. (Italian summary) **90h:34128**
Villella-Bressan, Rosanna *see* **Dyson, Janet, 90g:34081**
Zhang, Kang Pei Abstract functional-differential equations and nonlinear semigroups on product spaces. (Chinese) **90e:34154**

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Aleĭdarov, S. M. Existence and uniqueness of solutions of power growth of an equation with deviating argument. (Russian) **90e:34119**
Brykalov, S. A. Conditions for the existence of solutions that do not require isolation of the linear part in the boundary conditions. **90e:34112**
Jeong, Jin-Mun Spectral properties of the operator associated with a retarded functional-differential equation in Hilbert space. **90h:47094**
Martin, Robert H., Jr. (*with* Smith, H. L.) Abstract functional-differential equations and reaction-diffusion systems. **90m:35194**
Mastinšek, Miklavž Structural operators for abstract functional-differential equations. **90j:47048**
Milota, J. Asymptotic behaviour of parabolic equations with infinite delay. **90i:34117**
Precup, Radu Nonlinear boundary value problems for infinite systems of second-order functional-differential equations. **90c:34070**
Smith, H. L. *see* **Martin, Robert H., Jr., 90m:35194**

34K35 Control problems

Aĭda-zade, K. R. (*with* Mamedov, S. N.) Solution of problems of the control of systems with delay. (Russian. English and Azerbaijani summaries) **90b:34111**
Amemiya, Takashi Delay-independent stability of higher-order systems. **90j:34106**
Bentsman, J. (*with* Lehman, Bradley) Calculation formula for vibrational control of a class of linear time lag systems. **90m:34158**
Burns, John A. (*with* Peichl, Gunther H.) A note on the asymptotic behavior of controllability radii for a scalar hereditary system. **90j:34107**
Chen, Ming Wu *see* **Tong, Tiao Sheng; et al., 90a:34177**
Cheng, Ming Wu (*with* Tong, Tiao Sheng) An algorithm for solving time-delayed optimal control problems via block-pulse functions. (Chinese. English summary) **90b:34112**
Chukwu, E. N. The time control theory of linear differential equations of neutral type. **90e:34155**
Corduneanu, C. Control problems for abstract Volterra functional-differential equations. (*see* **90d:93005**)
Emel'yanov, S. V. (*with* Korovin, S. K.; Mamedov, I. G.; Nersisyan, A. L.) Binary algorithms for controlling a class of indeterminate dynamical systems with delay. **90m:34159**
Fridman, È. M. *see* **Mikheev, Yu. V.; et al., 90c:34080**
Gao, Jian Xun (*with* Wang, Yue Juan; Wan, Bai Wu) A new type of Smith predictor control for a large system with time delay. (Chinese. English summary) (Not in MR)
Gómez Fernández, Juan Alfredo Optimal control of nonlinear retarded systems with phase constraints. **90d:34156**
Gorelik, S. B. (*with* Kalinin, A. I.) The perturbation method for the optimization of linear systems of neutral type with small delay. (Russian) (*see* **90m:93001**)

Grabowski, Piotr Evaluation of quadratic cost functionals for neutral systems: the frequency-domain approach. **90f:34128**
Jasinski, Heinrich (*with* Wagner, Peter^1) Zur Erreichbarkeitsmenge von Systemen mit Zeitverzögerung. [Accessibility set of systems with time delay] (Not in MR)
Kalinin, A. I. *see* **Gorelik, S. B.**, (**90m:93001**)
Kappel, F. (*with* Salamon, Dietmar) On the stability properties of spline approximations for retarded systems. **90a:34174**
Khusainov, D. Ya. Estimates for the absolute stability of a control system with deviating argument of neutral type. (Russian) **90m:34160**
Kir′yanen, A. I. (*with* Shalyapina, O. V.) Pointwise synthesis-controllability of systems with delay. **90i:34120**
Kolmanovskiĭ, V. B. (*with* Koroleva, N. I.) Optimal control of some bilinear systems with aftereffect. (Russian) **90j:34108**
Kopeĭkina, T. B. Controllability of linear singularly perturbed systems with delay. **90m:34161**
Koroleva, N. I. *see* **Kolmanovskiĭ, V. B., 90j:34108**
Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 90m:34159**
Lehman, Bradley *see* **Bentsman, J., 90m:34158**
Liu, Ming Zhu Decoupling and coefficient assignment for (A, B, C, D) time-delay systems. **90m:34162**
Ma, Zhu Wu (*with* Zong, Shu Qiang) A new control method for systems with pure time-delay. (Chinese. English summary) (Not in MR)
Mamedov, I. G. *see* **Emel′yanov, S. V.; et al., 90m:34159**
Mamedov, S. N. *see* **Aĭda-zade, K. R., 90b:34111**
Mardanov, M. Dzh. Necessary second-order conditions in systems with delays with a free right end. (Russian) (*see* **90d:00008**)
Metel′skiĭ, A. V. Functional attainability and functional observability of systems of differential-difference equations. (Russian. English summary) **90a:34175**
Mikheev, Yu. V. (*with* Sobolev, V. A.; Fridman, È. M.) Asymptotic analysis of digital control systems. **90c:34080**
Nersisyan, A. L. *see* **Emel′yanov, S. V.; et al., 90m:34159**
O'Malley, Mark *see* **de Paor, Annraoi M.**, (Not in MR)
Orlov, Yu. V. A problem on the optimal control of delays. I. **90i:34121**
— A problem on the optimal control of delays. II. **90i:34122**
de Paor, Annraoi M. (*with* O'Malley, Mark) Controllers of Ziegler-Nichols type for unstable process with time delay. (Not in MR)
Peichl, Gunther H. *see* **Burns, John A., 90j:34107**
Pesheva, Yuliyana Khr. Optimization of a linear terminal criterion on the trajectories of a linear system with delay. (Russian) **90a:34176**
— A method for solving a problem of the minimization of a quadratic function for linear control systems with delay. (Russian. English summary) **90h:34129**
Rodionov, A. M. Impulse control of systems with delay. (Russian) (Not in MR)
Salamon, Dietmar *see* **Kappel, F., 90a:34174**
de la Sen, Manuel Fundamental properties of linear control systems with after-effect. I. The continuous case. **90f:34129**
Shakhidze, A. N. Sharpening a lower bound for the optimal time in a linear control problem with delay. (Russian) **90f:34130**
Shalyapina, O. V. *see* **Kir′yanen, A. I., 90i:34120**
Sinha, A. S. C. Comparison methods for impulsively perturbed delay-differential control systems. **90i:34123**
Smorodin, V. S. The connection between a vector impulse and the Bellman function for systems with distributed delay. (Russian) (Not in MR)
Sobolev, V. A. *see* **Mikheev, Yu. V.; et al., 90c:34080**
Szczepaniak, P. S. Determination of the optimal initial function and the parameters for nonlinear time-delay systems. **90j:34109**
Tong, Tiao Sheng (*with* Chen, Ming Wu; Zhang, Hai Sha) A Walsh transform algorithm for optimal control of systems with multiple time delays. (Chinese. English summary) **90a:34177**
— *see also* **Cheng, Ming Wu, 90b:34112**
Tonkopiĭ, A. F. Stabilizing a system of neutral type. **90h:34130**
Wagner, Peter^1 *see* **Jasinski, Heinrich**, (Not in MR)
Wan, Bai Wu *see* **Gao, Jian Xun; et al.**, (Not in MR)
Wang, Yue Juan *see* **Gao, Jian Xun; et al.**, (Not in MR)
Yakovleva, A. P. An optimal control problem for a difference inclusion with aftereffect. (Russian. English summary) (Not in MR)
Yamamoto, Yutaka Reachability of a class of infinite-dimensional linear systems: an external approach with applications to general neutral systems. **90e:34156**
Yanushevskiĭ, R. T. Optimal control of linear differential-difference systems of neutral type. **90m:34163**
Zhang, Hai Sha *see* **Tong, Tiao Sheng; et al., 90a:34177**
Zong, Shu Qiang *see* **Ma, Zhu Wu**, (Not in MR)

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Abe, Naoto *see* **Uchida, Kenko; et al., 90i:49042**
Adali, S. *see* **Sadek, I. S.; et al., 90c:73080**
Altan, Ş. Burhanettin *see* **Meriç, R. A., 90c:73014**
Anan′evskiĭ, I. M. (*with* Kolmanovskiĭ, V. B.) Stability of some control systems with aftereffect. **90k:93055**
Andreeva, E. A. Sufficient conditions for optimality for optimal control problems with retarded argument. (Russian) (*see* **90m:00015**)
Arsenashvili, A. I. (*with* Tadumadze, T. A.) Necessary conditions for optimality for controllable systems of neutral type with variable structure and a continuous condition of succession. (Russian. English and Georgian summaries) **90c:49033**
Balachandran, Krishnan Controllability of nonlinear infinite-delay systems. **90i:93012**
— Existence of optimal control for nonlinear multiple-delay systems. **90c:49001**
— Controllability of nonlinear delay systems with an implicit derivative. **90j:93011**
— (*with* Dauer, J. P.) Relative controllability of perturbations of nonlinear systems. (Not in MR)
— Nonlinear perturbations of quasi-linear delay control systems. **90b:49058**
— (*with* Dauer, J. P.) Null controllability of nonlinear infinite delay systems with distributed delays in control. **90j:93012**
Bamani, Ali (*with* Lee, Gordon K. F.; Jin, Lu^2) Design of decoupled optimal stochastic systems for low sensitivity to small time delays. **90c:93109**
Briggs, Monima (*with* Vinter, R. B.) Linear filtering for time-delay systems. **90e:93100**
Brokate, Martin Optimal control of ODE systems with hysteresis nonlinearities. **90i:49018**
Bruch, J. C., Jr. *see* **Sadek, I. S.; et al., 90c:73080**
Brusin, V. A. (*with* Ugrinovskaya, E. Ya.) Adaptive control of a class of nonlinear systems with an aftereffect. **90b:93081**
Burns, John A. (*with* Peichl, Gunther H.) Preservation of controllability under approximation and controllability radii for hereditary systems. **90c:49078**
Cheres, E. (*with* Gutman, Shaul; Palmor, Z. J.) Stabilization of uncertain dynamic systems including state delay. **90i:93094**
Chyung, Dong Hak *see* **Pourboghrat, Farzad, 90k:93023**
Dahleh, Mohammed Generalization of Tychonov's theorem with applications to adaptive control of SISO delay systems. (Not in MR)
Datta, K. B. *see* **Mohan, B. M., 90c:93018**
Dauer, J. P. *see* **Balachandran, Krishnan, 90j:93012** *and* (Not in MR)
Eke, Anthony N. Compactness and convexity of cores of targets for neutral systems. **90c:49073**
Emel′yanov, S. V. (*with* Mamedov, I. G.; Nersisyan, A. L.) Control of uncertain dynamical systems with delay in a class of binary control algorithms. **90c:93077**
Fiagbedzi, Y. A. *see* **Pearson, A. E.**, (Not in MR)
Gómez Fernández, Juan Alfredo (*with* Rozsa, Roberto) Sensitivity of the optimum value with respect to the delay in a control problem. (Spanish. English summary) **90g:93037**
Gutman, Shaul *see* **Cheres, E.; et al., 90i:93094**
Ichikawa, K. Control of internally delayed plants by using only input-output signals. **90m:93061**
Ito, Kazufumi (*with* Tran, H. T.) Linear quadratic optimal control problem for linear systems with unbounded input and output operators: numerical approximations. **90m:65135**
Ivokhin, E. V. *see* **Shatyrko, A. V.**, (Not in MR)
Jasinski, Heinrich (*with* Wagner, Peter^1) Ein Algorithmus zur Optimierung eines dynamischen Systems mit Zeitverzögerung von neutralem Typ. [An algorithm for the optimization of a dynamic system with time delay of neutral type] (Not in MR)
Jin, Lu^2 *see* **Bamani, Ali; et al., 90c:93109**
Kai, Xiong Zhong (*with* Leitmann, George) On the robustness of mismatched uncertain dynamical systems with delay. (*see* **90m:00037**)
Kamenskiĭ, G. A. Variational and boundary value problems with deviating argument with asymmetric boundary conditions. (Russian) **90i:49023**
Kao Tien Guin′ (*with* Nguen Mi; Rivas Peres, Raul) Adaptive control of an object with a delay on the basis of a nonsearching self-tuning system with a model. **90a:93067**
Khrustalev, M. M. Global optimality conditions for controlled noninertial systems with delays. (Russian and Polish summaries) **90f:49023**
Khusainov, D. Ya. (*with* Zhuĭkova, A. G.) The obtaining of estimates for the stability of nonlinear control systems with retarded argument. (Russian) **90k:34100**
Kolmanovskiĭ, V. B. *see* **Anan′evskiĭ, I. M., 90k:93055**
Kopeĭkina, T. B. Controllability of linear singularly perturbed systems with delay. (Russian) (*see* **90m:93001**)
Kotarski, W. Optimal control of a system governed by a parabolic equation with an infinite number of variables and time delay. **90k:49021**
Krasnosel′skiĭ, M. A. (*with* Pokrovskiĭ, A. V.) ★ Systems with hysteresis. **90a:93001**
Kubo, T. *see* **Uchida, Kenko; et al., 90i:49042**
K'ung, Fan Chü *see* **Shên, Chin Chung**, (Not in MR)
Lebedev, A. L. Ideal observability of continuous systems with delay and with nonlinear input. (Russian) (*see* **90m:93001**)
Lee, E. Bruce *see* **Louisell, J., 90e:93012**
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Lennartson, Bengt Sampled-data control for time-delayed plants. **90c:93115**
Logemann, Hartmut Transfer-function conditions for the stability of neutral and Volterra integrodifferential systems. **90a:93080**
Louisell, J. (*with* Lee, E. Bruce) Further results on controllability and the linear equation $Ax = b$. **90e:93012**
Mamedov, I. G. *see* **Emel′yanov, S. V.; et al., 90c:93077**
Mansimov, K. B. Optimality of singular controls in systems with delay that are controllable by means of initial functions. (Russian) **90j:49012**
Mardanov, M. Dzh. Necessary conditions for second-order optimality in systems with delays in the presence of constraints. (Russian. English and Azerbaijani summaries) **90b:49033**
Matveev, A. S. Problems of optimal control with delays of general type and with phase constraints. **90a:49026**
Meriç, R. A. (*with* Altan, Ş. Burhanettin) Optimal control of memory dependent nonlocal elastic solids. **90c:73014**
Mohan, B. M. (*with* Datta, K. B.) Analysis of time-delay systems via shifted Chebyshev polynomials of the first and second kinds. **90c:93018**
Naito, Koichiro (*with* Park, Jong Yeoul) Approximate controllability for trajectories of a delay Volterra control system. **90f:93011**
Nakagiri, Shinichi (*with* Yamamoto, Masahiro) Controllability and observability of linear retarded systems in Banach spaces. **90h:93014**
Nersisyan, A. L. *see* **Emel′yanov, S. V.; et al., 90c:93077**
Nguen Mi *see* **Kao Tien Guin′; et al., 90a:93067**
(Niezgódka, Marek) *see* **Krasnosel′skiĭ, M. A., 90a:93001**
Nihtilä, Markku T. Adaptive control of a continuous-time system with time-varying input delay. **90c:93065**
Onwuatu, Jerry U. On controllability of nonlinear systems with distributed delays in the control. **90d:93011**
Palmor, Z. J. *see* **Cheres, E.; et al., 90i:93094**
Park, Jong Yeoul *see* **Naito, Koichiro, 90f:93011**
Pearson, A. E. (*with* Fiagbedzi, Y. A.) An observer for time lag systems. (Not in MR)

Peichl, Gunther H. *see* **Burns, John A., 90c:49078**

Pesheva, Yuliyana Khr. An algorithm for minimization of a quadratic function in linear control systems with delay. (Russian. English summary) (*see* **90d:00041**)

Pokrovskiĭ, A. V. *see* **Krasnosel′skiĭ, M. A., 90a:93001**

Pourboghrat, Farzad (*with* Chyung, Dong Hak) Parameter identification of linear delay systems. **90k:93023**

Propst, Georg Piecewise linear approximation for hereditary control problems. **90m:49024**

Rivas Peres, Raul *see* **Kao Tien Guin′; et al., 90a:93067**

Rozsa, Roberto *see* **Gómez Fernández, Juan Alfredo, 90g:93037**

Sadek, I. S. (*with* Sloss, J. M.; Bruch, J. C., Jr.; Adali, S.) Dynamically loaded beam subject to time-delayed active control. **90c:73080**

Sharipov, Sh. A. Structure of a multicriterial problem of a differential-difference system in the case of Slater optimality. (Russian) **90a:90190**

Shatyrko, A. V. (*with* Ivokhin, E. V.) Analysis of automatic control systems with delay on the basis of the second Lyapunov method. (Russian) (Not in MR)

Shên, Chin Chung (*with* K'ung, Fan Chü) Stabilization of input-delay systems with saturating actuator. (Not in MR)

Shimemura, Etsujiro *see* **Uchida, Kenko; et al., 90i:49042**

Sinha, A. S. C. Controllability of large-scale nonlinear systems with distributed delays in control and states. **90j:93019**

Sloss, J. M. *see* **Sadek, I. S.; et al., 90c:73080**

Solnechnyĭ, È. M. Conditions for the stability and structural stability of a one-channel invariant system of arbitrary order. **90a:93083**

Sontag, Eduardo D. (*with* Yamamoto, Yutaka) On the existence of approximately coprime factorizations for retarded systems. **90i:93027**

Tadmor, Gilead H^∞ interpolation and systems with input delays: a time domain approach. **90m:93048**

Tadumadze, T. A. *see* **Arsenashvili, A. I., 90c:49033**

Tran, H. T. *see* **Ito, Kazufumi, 90m:65135**

Tsykunov, A. M. A quadratic criterion for absolute stability in the theory of adaptive systems. **90d:93069**

Tudor, Constantin Optimal control for a class of nonlinear stochastic hereditary systems. **90i:93143**

Uchida, Kenko (*with* Shimemura, Etsujiro; Kubo, T.; Abe, Naoto) The linear-quadratic optimal control approach to feedback control design for systems with delay. **90i:49042**

Ugrinovskaya, E. Ya. *see* **Brusin, V. A., 90b:93081**

Vinter, R. B. *see* **Briggs, Monima, 90e:93100**

Wagner, Peter[1] *see* **Jasinski, Heinrich**, (Not in MR)

Watanabe, Keiji Stabilization of linear systems with noncommensurate delays. **90b:93088**

Yamamoto, Masahiro *see* **Nakagiri, Shinichi, 90h:93014**

Yamamoto, Yutaka *see* **Sontag, Eduardo D., 90i:93027**

Zhuĭkova, A. G. *see* **Khusainov, D. Ya., 90k:34100**

34K99 None of the above, but in this section

Chambers, Ll. G. Note on the functional-differential equation $\sum_{m=-\infty}^{\infty} a_m y'(x+m\alpha) = f(x)$. **90g:34082**

Tsar′kov, E. F. ★ Случайные возмущения дифференциально-функциональных уравнений. (Russian) [Random perturbations of functional-differential equations] **90m:34164**

Items with secondary classifications in 34K99

Asmykovich, I. K. Aperiodic control of linear discrete systems with delay. (Russian) (*see* **90m:93001**)

Ershov, S. V. Statistical properties of chaos in an equation with delay: large-scale approximation. (Russian. English summary) **90k:58129**

Kolmanovskiĭ, V. B. Boundedness of moments of solutions of stochastic equations with aftereffect. **90k:60108**

Korenevskiĭ, D. G. Absolute (with respect to nonlinearity and delay) stability in the mean square of stochastic differential-difference systems of automatic control. **90j:93111**

Rodkina, A. E. A proof of the solvability of nonlinear stochastic functional-differential equations. (Russian) **90k:60113**

Rybiński, Longin E. Random fixed points and viable random solutions of functional-differential inclusions. **90i:34088**

Shishkin, G. A. Formulation and solution of linear boundary value problems for Fredholm integro-differential equations with deviating argument. (Russian) (*see* **90a:00007**)

Wu, Jian Hong Periodic solutions of nonconvolution neutral integrodifferential equations. **90b:45024**

35–XX Partial differential equations

Items with secondary classifications in 35–XX

(Matveev, N. M.) *see* **Partial differential equations, 90h:00010**

Items listed otherwise than by author

Partial differential equations ★ Дифференциальные уравнения с частными производными. (Russian) [Partial differential equations] **90h:00010**

35–00 Handbooks, dictionaries, and other reference works

Courant, Richard (*with* Hilbert, D.) ★ Methods of mathematical physics. Vol. II. **90k:35001**

(Fasano, A.) *see* **Tarzia, D. A., 90k:35002**

Hilbert, D. *see* **Courant, Richard, 90k:35001**

Tarzia, D. A. ★ A bibliography on moving-free boundary problems for the heat-diffusion equation. The Stefan problem. **90k:35002**

Items with secondary classifications in 35–00

Zwillinger, Daniel ★ Handbook of differential equations. **90k:00044**

35–01 Elementary exposition; textbooks

Barton, Gabriel ★ Elements of Green's functions and propagation. **90f:35001**

Broman, Arne ★ Introduction to partial differential equations. **90m:35001**

(Caloz, G.) *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

Chen, Ya Zhe *see* **Jiang, Li Shang, 90g:35001**

Cuvelier, C. (*with* Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 1. (French) [Partial differential equations for engineers. Theory and numerical methods. 1] **90k:35003a**

— (*with* Descloux, J.; Rappaz, J.; Stuart, Charles A.; Zwahlen, B.) ★ Éléments d'équations aux dérivées partielles pour ingénieurs. Théorie et méthodes numériques. 2. (French) [Partial differential equations for engineers. Theory and numerical methods. 2] **90k:35003b**

Descloux, J. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

Ismatov, M. ★ Muodialakhoi fizikai matematikī. Qismi I. (Tajiki) [Equations of mathematical physics. Part I] **90h:35001**

Jiang, Li Shang (*with* Chen, Ya Zhe) ★ Shuxue wuli fangcheng jiangyi. (Chinese) [Lectures on equations of mathematical physics] **90g:35001**

Rappaz, J. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

Stuart, Charles A. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

Zaidman, Samuel ★ Une introduction à la théorie des équations aux dérivées partielles. (French) [An introduction to the theory of partial differential equations] **90g:35002**

Zauderer, Erich ★ Partial differential equations of applied mathematics. **90k:35004**

Zwahlen, B. *see* **Cuvelier, C.; et al., 90k:35003a** *and* **90k:35003b**

Items with secondary classifications in 35–01

Amundson, Neal R. *see* **Rhee, Hyun Ku; et al., 90g:35086a** *and* **90g:35086b**

Aris, R. *see* **Rhee, Hyun Ku; et al., 90g:35086a** *and* **90g:35086b**

(Bénilan, Philippe) *see* **Dautray, Robert, 90k:00004**

(Berg, Christa) *see* **Smirnov, Vladimir Ivanovich, 90k:00003b**

(Berg, Lothar) *see* **Smirnov, Vladimir Ivanovich, 90k:00003b**

Carroll, Robert Wayne ★ Mathematical physics. **90g:00002**

(Cessenat, Michel) *see* **Dautray, Robert, 90k:00004**

Dautray, Robert (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 7. (French) [Mathematical analysis and computing for science and technology. Vol. 7] **90m:00006a**

— (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] **90m:00006b**

— (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 9. (French) [Mathematical analysis and computing for science and technology. Vol. 9] **90m:00006c**

— (*with* Lions, Jacques-Louis) ★ Mathematical analysis and numerical methods for science and technology. Vol. 1. **90k:00004**

Drazin, P. G. (*with* Johnson, R. S.) ★ Solitons: an introduction. **90j:35166**

(Gabitov, I. R.) *see* **Newell, Alan C., 90m:35178**

(Gervat, André) *see* **Dautray, Robert, 90k:00004**

Godin, Paul ★ Long time existence of solutions to Cauchy and mixed problems for second order quasilinear hyperbolic equations. **90f:35114**

(Herbst, Ehrhard) *see* **Smirnov, Vladimir Ivanovich, 90k:00003b**

Johnson, R. S. *see* **Drazin, P. G., 90j:35166**

(Kavenoky, Alain) *see* **Dautray, Robert, 90k:00004**

Kesavan, S. ★ Topics in functional analysis and applications. **90m:46002**

(Kozlov, Ernest) *see* **Vladimirov, V. S., 90k:00011**

(Ladyzhenskaya, O. A.) *see* **Smirnov, Vladimir Ivanovich, 90k:00003b**

(Lanchon, Hélène) *see* **Dautray, Robert, 90k:00004**

Lions, Jacques-Louis *see* **Dautray, Robert, 90k:00004; 90m:00006a; 90m:00006b** *and* **90m:00006c**

(Mikhaĭlov, A. V.) *see* **Newell, Alan C., 90m:35178**

Newell, Alan C. ★ Солитоны в математике и физике. (Russian) [Solitons in mathematics and physics] **90m:35178**

(Orlov, A. Yu.) *see* **Newell, Alan C., 90m:35178**

Rhee, Hyun Ku (*with* Aris, R.; Amundson, Neal R.) ★ First-order partial differential equations. Vol. I. **90g:35086a**

— (*with* Aris, R.; Amundson, Neal R.) ★ First-order partial differential equations. Vol. II. **90g:35086b**

(Shul′man, E. I.) *see* **Newell, Alan C., 90m:35178**

Smirnov, Vladimir Ivanovich ★ Lehrgang der höheren Mathematik. Teil IV/2. (German) [Course of higher mathematics. Part IV/2] **90k:00003b**

(Sneddon, Ian N.) *see* **Dautray, Robert, 90k:00004**

Sobolev, S. L. ★ Некоторые применения функционального анализа в математической физике. (Russian) [Some applications of functional analysis in mathematical physics] **90m:46059**

(Teillac, Jean) *see* **Dautray, Robert, 90k:00004**

Thayer, Francisco Javier ★ Operadores auto-adjuntos e equações diferenciais parciais. (Portuguese) [Selfadjoint operators and partial differential equations] **90b:47001**

Vladimirov, V. S. ★ Equazioni della fisica matematica. (Italian) [Equations of mathematical physics] **90k:00011**

— ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] **90m:00009**

Watson, N. A. ★ Parabolic equations on an infinite strip. **90e:35001**

Zuily, C. ★ Problems in distributions and partial differential equations. **90d:46001**

35–02 Advanced exposition (research surveys, monographs, etc.)

Ames, W. F. *see* **Rogers, Colin, 90i:35001**

Lax, Peter D. (*with* Phillips, Ralph S.) ★ Scattering theory. **90k:35005**
(Morawetz, Cathleen S.) *see* **Lax, Peter D., 90k:35005**
Phillips, Ralph S. *see* **Lax, Peter D., 90k:35005**
Rogers, Colin (*with* Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. **90i:35001**
(Schmidt, E. J. P. Georg) *see* **Lax, Peter D., 90k:35005**
Tutschke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. **90k:35006**
Watson, N. A. ★ Parabolic equations on an infinite strip. **90e:35001**

Items with secondary classifications in 35-02

Arnol'd, V. I. (*with* Vishik, M. I.; Il'yashenko, Yu. S.; Kalashnikov, A. S.; Kondrat'ev, V. A.; Kruzhkov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleĭnik, O. A.; Filippov, A. F.; Shubin, M. A.) Some unsolved problems in the theory of differential equations and mathematical physics. **90m:00003**
Ermakov, S. M. (*with* Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. **90k:60168**
Filippov, A. F. *see* **Arnol'd, V. I.; et al., 90m:00003**
Il'in, A. M. ★ Согласование асимптотических разложений решений краевых задач. (Russian) [Matching of asymptotic expansions of solutions of boundary value problems] **90i:35062**
Il'yashenko, Yu. S. *see* **Arnol'd, V. I.; et al., 90m:00003**
Kalashnikov, A. S. *see* **Arnol'd, V. I.; et al., 90m:00003**
Kondrat'ev, V. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
Kruzhkov, S. N. *see* **Arnol'd, V. I.; et al., 90m:00003**
Landis, E. M. *see* **Arnol'd, V. I.; et al., 90m:00003**
Lokshin, A. A. (*with* Sagomonyan, E. A.) ★ Нелинейные волны в механике твердого тела. (Russian) [Nonlinear waves in the mechanics of a rigid body] **90d:35185**
Melikulov, A. S. *see* **Radkevich, E. V., 90f:35213**
Millionshchikov, V. M. *see* **Arnol'd, V. I.; et al., 90m:00003**
Nekrutkin, V. V. *see* **Ermakov, S. M.; et al., 90k:60168**
Oleĭnik, O. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
(Pazy, A.) *see* **Vrabie, Ioan I., 90f:47101**
(Polubarinova-Kochina, P. Ya.) *see* **Radkevich, E. V., 90f:35213**
(Quandt, Juergen) *see* **Zeidler, Eberhard, 90b:00004**
Radkevich, E. V. (*with* Melikulov, A. S.) ★ Краевые задачи со свободной границей. (Russian) [Boundary value problems with a free boundary] **90f:35213**
Sagomonyan, E. A. *see* **Lokshin, A. A., 90d:35185**
Shubin, M. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
Sipin, A. S. *see* **Ermakov, S. M.; et al., 90k:60168**
Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**
Vishik, M. I. *see* **Arnol'd, V. I.; et al., 90m:00003**
Vrabie, Ioan I. ★ Compactness methods for nonlinear evolutions. **90f:47101**
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

Items listed otherwise than by author

Current problems in mathematics. Newest results ★ Current problems in mathematics. Newest results. Vol. 28. **90h:00023**

35-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 35-03

Alimova, N. M. *see* **Matveev, N. M., 90d:01025**
(Lampariello, G.) *see* **Levi-Civita, Tullio, 90b:01109**
Levi-Civita, Tullio ★ Caratteristiche dei sistemi differenziali e propagazione ondosa. (Italian) [Characteristics of differential systems and wave propagation] **90b:01109**
Matveev, N. M. (*with* Alimova, N. M.) Sources of asymptotic methods in the theory of partial differential equations. (Russian) **90d:01025**
Nirenberg, L. Fully nonlinear elliptic equations. **90b:35088**

35-04 Explicit machine computation and programs (not the theory of computation or programming)

Brackx, F. (*with* Serras, H.) Boundary value problems for the Laplacian in the Euclidean space solved by symbolic computation. (*see* **90i:68007**)
Gerdt, V. P. (*with* Zharkov, A. Yu.) Computer classification of integrable seventh order MKdV-like equations. (*see* **90i:68007**)
Serras, H. *see* **Brackx, F., (90i:68007)**
Zharkov, A. Yu. *see* **Gerdt, V. P., (90i:68007)**

Items with secondary classifications in 35-04

Drew, Mark S. (*with* Kloster, Steve C.; Gegenberg, J. D.) Lie group analysis and similarity solutions for the equation $\partial^2 u/\partial x^2 + \partial^2 u/\partial y^2 + \partial^2(e^u)/\partial z^2 = 0$. **90h:58086**
Fushchich, V. I. (*with* Kornyak, V. V.) Computer algebra application for determining Lie and Lie-Bäcklund symmetries of differential equations. **90d:58166**
Gegenberg, J. D. *see* **Drew, Mark S.; et al., 90h:58086**
Kloster, Steve C. *see* **Drew, Mark S.; et al., 90h:58086**
Kornyak, V. V. *see* **Fushchich, V. I., 90d:58166**

35-06 Proceedings, conferences, etc.

(Balabane, Mikhaël) *see* **Integrable systems and applications, 90i:35002**
(Bénilan, Philippe) *see* **Recent advances in nonlinear elliptic and parabolic problems, 90i:35003**
(Blanchard, Ph.) *see* **New methods and results in nonlinear field equations, 90h:35003**
(Bojarski, B.) *see* **Partial differential equations, 90m:35003**
(Carasso, C.) *see* **Nonlinear hyperbolic problems, 90h:35004**
(Charrier, P.) *see* **Nonlinear hyperbolic problems, 90h:35004**
(Chern, Shiing Shen) *see* **Partial differential equations, 90h:35005**
(Chipot, M.) *see* **Recent advances in nonlinear elliptic and parabolic problems, 90i:35003**
(Colton, David) *see* **Inverse problems in partial differential equations, 90j:35001**
(Crandall, Michael G.) *see* **Directions in partial differential equations, 90d:35001**
(Dias, João-Paulo) *see* **New methods and results in nonlinear field equations, 90h:35003**
(Dwilęwicz, Roman) *see* **Partial differential equations, 90m:35003**
(Evans, L. C.) *see* **Recent advances in nonlinear elliptic and parabolic problems, 90i:35003**
(Ewing, Richard E.) *see* **Inverse problems in partial differential equations, 90j:35001**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 90h:35002** *and* **Current problems in mathematics. Newest results, 90m:35002**
(Hanouzet, B.) *see* **Nonlinear hyperbolic problems, 90h:35004**
(Jeffrey, Alan) *see* **Nonlinear wave motion, 90d:35004**
(Joly, J.-L.) *see* **Nonlinear hyperbolic problems, 90h:35004**
(Lochak, P.) *see* **Integrable systems and applications, 90i:35002**
(Luk'yanov, A. T.) *see* **Mathematical modeling of nonstationary processes, 90e:35002** *and* **Mathematical modeling of transport phenomena, 90h:35143a**
(Mimura, Masayasu) *see* **Recent topics in nonlinear PDE, 90j:35002**
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(Pierre, Michel) *see* **Recent advances in nonlinear elliptic and parabolic problems, 90i:35003**
(Rabinowitz, Paul H.) *see* **Directions in partial differential equations, 90d:35001**
(Rundell, William) *see* **Inverse problems in partial differential equations, 90j:35001**
(Stubbe, Joachim) *see* **New methods and results in nonlinear field equations, 90h:35003**
(Sulem, C.) *see* **Integrable systems and applications, 90i:35002**
(Turner, R. E. L.) *see* **Directions in partial differential equations, 90d:35001**

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Arcata, CA ★ Inverse problems in partial differential equations. **90j:35001**
Bielefeld ★ New methods and results in nonlinear field equations. **90h:35003**
Bordeaux ★ Nonlinear hyperbolic problems. **90h:35004**
Conference:
  Inverse Problems in Partial Differential Equations ★ Inverse problems in partial differential equations. **90j:35001**
  Nonlinear Fields ★ New methods and results in nonlinear field equations. **90h:35003**
  Recent Advances in Nonlinear Elliptic and Parabolic Problems ★ Recent advances in nonlinear elliptic and parabolic problems. **90i:35003**
Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 63. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 63] **90h:35002**
Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 37. (Russian) [Current problems in mathematics. Newest results. Vol. 37] **90m:35002**
Directions in partial differential equations ★ Directions in partial differential equations. **90d:35001**
Hirota's method in soliton theory ★ Suriton riron ni okeru Hirota no hōhō. (Japanese) [Hirota's method in soliton theory] **90d:35002**
Île d'Oléron ★ Integrable systems and applications. **90i:35002**
Integrable systems and applications ★ Integrable systems and applications. **90i:35002**
Inverse problems in partial differential equations ★ Inverse problems in partial differential equations. **90j:35001**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 63. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 63] **90h:35002**
— ★ Современные проблемы математики. Новейшие достижения. Том 37. (Russian) [Current problems in mathematics. Newest results. Vol. 37] **90m:35002**
Kyoto ★ Recent topics in nonlinear PDE. IV. **90j:35002**
Lecture Notes in Mathematics ★ Partial differential equations. **90h:35005**
— ★ Nonlinear hyperbolic problems. **90h:35004**
Lecture Notes in Physics ★ New methods and results in nonlinear field equations. **90h:35003**
— ★ Integrable systems and applications. **90i:35002**
Linear and nonlinear boundary value problems. Spectral theory ★ Linear and nonlinear boundary value problems. Spectral theory. **90d:35003**
Madison, WI ★ Directions in partial differential equations. **90d:35001**
Mathematical modeling of nonstationary processes ★ Математическое моделирование нестационарных процессов. (Russian) [Mathematical modeling of nonstationary processes] **90e:35002**
Mathematical modeling of transport phenomena ★ Математическое моделирование явлений переноса. (Russian) [Mathematical modeling of transport phenomena] **90h:35143a**
Meeting:
  Nonlinear Partial Differential Equations ★ Recent topics in nonlinear PDE. IV. **90j:35002**
Nancy ★ Recent advances in nonlinear elliptic and parabolic problems. **90i:35003**
New methods and results in nonlinear field equations ★ New methods and results in nonlinear field equations. **90h:35003**
Nonlinear hyperbolic equations in applied sciences ★ Nonlinear hyperbolic equations in applied sciences. **90h:35004** (Not in MR)
Nonlinear wave motion ★ Nonlinear wave motion. **90d:35004**
Partial differential equations ★ Partial differential equations. **90m:35003**
— ★ Partial differential equations. **90h:35005**
Recent advances in nonlinear elliptic and parabolic problems ★ Recent advances in nonlinear elliptic and parabolic problems. **90i:35003**
Recent topics in nonlinear PDE ★ Recent topics in nonlinear PDE. IV. **90j:35002**
Seminar:
  Partial Differential Equations ★ Séminaire sur les Équations aux Dérivées Partielles 1987–1988. [Seminar on Partial Differential Equations 1987–1988] **90d:35005**
  — ★ Séminaire sur les Équations aux Dérivées Partielles. 1988–1989. (French) [Seminar on Partial Differential Equations. 1988–1989] **90h:35006**
Symposium:
  Differential Geometry and Differential Equations ★ Partial differential equations.

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90h:35005

Hirota's Method in Soliton Theory ★ Suriton riron ni okeru Hirota no hōhō. (Japanese) [Hirota's method in soliton theory] **90d:35002**

Partial Differential Equations ★ Directions in partial differential equations. **90d:35001**

ianjin ★ Partial differential equations. **90h:35005**

urin ★ Nonlinear hyperbolic equations in applied sciences. (Not in MR)

Varsaw ★ Partial differential equations. **90m:35003**

Vorkshop:

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Nonlinear Hyperbolic Equations in Applied Sciences ★ Nonlinear hyperbolic equations in applied sciences. (Not in MR)

Nonlinear Hyperbolic Problems ★ Nonlinear hyperbolic problems. **90h:35004**

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Aftabizadeh, A. R.) *see* **Differential equations and applications, 90j:00016**

Clément, Philippe) *see* **Semigroup theory and applications, 90b:00010**

Colombini, Ferruccio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

Dafermos, C. M.) *see* **Differential equations, 90f:00003**

De Giorgi, E.) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

Foiaş, Ciprian) *see* **Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002**

(Gill, Tepper L.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**

(Holden, Helge) *see* **Schrödinger operators, 90j:00024**

(Invernizzi, Sergio) *see* **Semigroup theory and applications, 90b:00010**

(Jarvis, R. J.) *see* **Ordinary and partial differential equations, 90h:00018**

(Jensen, Arne^2) *see* **Schrödinger operators, 90j:00024**

(Ladas, G.) *see* **Differential equations, 90f:00003**

(Leon, Jérôme Jp.) *see* **Nonlinear evolutions, 90k:00029**

(Lindquist, W. B.) *see* **Current progress in hyperbolic systems: Riemann problems and computations, 90i:00003**

(Marino, Antonio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

(Mitidieri, Enzo) *see* **Semigroup theory and applications, 90b:00010**

(Modica, Luciano) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

(Moser, Jürgen K.) *see* **Analysis, et cetera, 90m:00014**

(Nicolaenko, Basil) *see* **Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002**

(Olver, Peter J.) *see* **Solitons in physics, mathematics, and nonlinear optics, 90m:00048**

(Päivärinta, L.) *see* **Function spaces, differential operators and nonlinear analysis, 90j:00020**

(Papanicolaou, G.) *see* **Differential equations, 90f:00003**

(Rabinowitz, Paul H.) *see* **Analysis, et cetera, 90m:00014**

(Rascle, M.) *see* **PDEs and continuum models of phase transitions, 90h:00019**

(Sattinger, David H.) *see* **Solitons in physics, mathematics, and nonlinear optics, 90m:00048**

(Serre, D.) *see* **PDEs and continuum models of phase transitions, 90h:00019**

(Skrypnik, I. V.) *see* **Functional and numerical methods in mathematical physics, 90k:00021**

(Sleeman, B. D.) *see* **Ordinary and partial differential equations, 90h:00018**

(Slemrod, Marshall) *see* **PDEs and continuum models of phase transitions, 90h:00019**

(Spagnolo, Sergio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

(Temam, R.) *see* **Connection between infinite-dimensional and finite-dimensional dynamical systems, 90h:58002**

(Vinogradov, A. M.) *see* **Symmetries of partial differential equations,** (Not in MR)

(Volkodavov, V. F.) *see* **Boundary value problems and the structure of solutions of differential equations, 90i:00001**

(Vrabie, Ioan I.) *see* **Semigroup theory and applications, 90b:00010**

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(Zachary, Woodford W.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**

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Analysis, et cetera ★ Analysis, et cetera. **90m:00014**

Attractors, inertial manifolds and their approximation ★ Attractors, inertial manifolds and their approximation. **90c:58047**

Balaruc-les-Bains ★ Nonlinear evolutions. **90k:00029**

Boulder, CO ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. **90h:58002**

Boundary value problems and the structure of solutions of differential equations ★ Краевые задачи и структура решений дифференциальных уравнений. (Russian) [Boundary value problems and the structure of solutions of differential equations] **90i:00001**

Brunswick, ME ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**

Columbus, OH ★ Differential equations and applications. Vol. I, II. **90j:00016**

Complex methods on partial differential equations in terms of differential operations ★ Complex methods on partial differential equations in terms of differential operations. (German) **90m:00035**

Conference:

Connection between Infinite-dimensional and Finite-dimensional Dynamical Systems ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. **90h:58002**

Current Progress in Hyperbolic Systems: Riemann Problems and Computations ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**

Differential Equations and their Applications ★ Equadiff 7. **90j:00017a**

— ★ Equadiff 7. **90j:00017b**

Conference: (*cont'd.*)

— ★ Equadiff 7. **90j:00017c**

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EQUADIFF ★ Differential equations. **90f:00003**

Infinite-dimensional Dissipative Systems ★ Attractors, inertial manifolds and their approximation. **90c:58047**

Ordinary and Partial Differential Equations ★ Ordinary and partial differential equations. Vol. II. **90h:00018**

Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **90k:00030**

Theory and Applications of Differential Equations ★ Differential equations and applications. Vol. I, II. **90j:00016**

Connection between infinite-dimensional and finite-dimensional dynamical systems ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. **90h:58002**

Contemporary Mathematics ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. **90h:58002**

— ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**

Current problems in mathematics. Newest results ★ Current problems in mathematics. Newest results. Vol. 28. **90h:00023**

Current progress in hyperbolic systems: Riemann problems and computations ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**

Differential equations ★ Differential equations. **90f:00003**

Differential equations and applications ★ Differential equations and applications. Vol. I, II. **90j:00016**

Dundee ★ Ordinary and partial differential equations. Vol. II. **90h:00018**

Equadiff ★ Equadiff 7. **90j:00017a**

— ★ Equadiff 7. **90j:00017b**

— ★ Equadiff 7. **90j:00017c**

— ★ Equadiff 7. **90j:00017d**

Evolution equations and their applications ★ Hatten hōteishiki to sono oyō. [Evolution equations and their applications] **90h:00004**

Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**

Functional and numerical methods in mathematical physics ★ Функциональные и численные методы математической физики. (Russian) [Functional and numerical methods in mathematical physics] **90k:00021**

Lecture Notes in Mathematics ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**

Lecture Notes in Physics ★ PDEs and continuum models of phase transition. **90h:00019**

— ★ Schrödinger operators. **90j:00024**

Marseille-Luminy ★ Attractors, inertial manifolds and their approximation. **90c:58047**

Meeting:

Trends in Semigroup Theory and Applications ★ Semigroup theory and applications. **90b:00010**

Minneapolis, MN ★ Solitons in physics, mathematics, and nonlinear optics. **90m:00048**

Nice ★ PDEs and continuum models of phase transition. **90h:00019**

Nonlinear evolutions ★ Nonlinear evolutions. **90k:00029**

Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**

Ordinary and partial differential equations ★ Ordinary and partial differential equations. Vol. II. **90h:00018**

Partial differential equations and the calculus of variations ★ Partial differential equations and the calculus of variations. Vol. I. **90j:00010**

— ★ Partial differential equations and the calculus of variations. Vol. II. **90j:00011**

PDEs and continuum models of phase transitions ★ PDEs and continuum models of phase transition. **90h:00019**

Prague ★ Equadiff 7. **90j:00017a**

— ★ Equadiff 7. **90j:00017b**

— ★ Equadiff 7. **90j:00017c**

— ★ Equadiff 7. **90j:00017d**

Proceedings:

Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **90k:00030**

Saint Jean de Monts ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **90k:00030**

School:

Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**

Schrödinger Operators ★ Schrödinger operators. **90j:00024**

Schrödinger operators ★ Schrödinger operators. **90j:00024**

Semigroup theory and applications ★ Semigroup theory and applications. **90b:00010**

Seminar:

Partial Differential Equations and Continuum Models of Phase Transitions ★ PDEs and continuum models of phase transition. **90h:00019**

Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. Année 1983–1984. (French) [Seminar on Spectral Theory and Geometry. Year 1983–1984] **90j:58001**

— ★ Séminaire de Théorie Spectrale et Géométrie. Année 1984–1985. (French) [Seminar on Spectral Theory and Geometry. Year 1984–1985] **90m:58219**

— ★ Séminaire de Théorie Spectrale et Géométrie. No. 4. Année 1985–1986. (French) [Seminar on Spectral Theory and Geometry. No. 4. Year 1985–1986] **90m:58220**

— ★ Séminaire de Théorie Spectrale et Géométrie. No. 5. Année 1986–1987. (French) [Seminar on Spectral Theory and Geometry. No. 5. Year 1986–1987] **90m:58221**

— ★ Séminaire de Théorie Spectrale et Géométrie. No. 7. Année 1988–1989. (French) [Seminar on Spectral Theory and Geometry. No. 7. Year 1988–1989] **90m:58223**

Several aspects of algebraic analysis ★ Daisui kaisekigaku no shoso. (Japanese) [Several aspects of algebraic analysis] **90b:58002**

Sodankylä ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
Solitons in physics, mathematics, and nonlinear optics ★ Solitons in physics, mathematics, and nonlinear optics. **90m:00048**
Sønderborg ★ Schrödinger operators. **90j:00024**
Special Issue:
  Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
  — ★ Symmetries of partial differential equations. Part II. (Not in MR)
  — ★ Symmetries of partial differential equations. Part III.
Spectral and scattering theories of differential operators and related topics ★ Bibunsayoso no supekutoru sanran riron to sono shuhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] **90d:47003**
Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
— ★ Symmetries of partial differential equations. Part II. (Not in MR)
— ★ Symmetries of partial differential equations. Part III. (Not in MR)
Symposium:
  Evolution Equations and their Applications ★ Hatten hōteishiki to sono oyō. [Evolution equations and their applications] **90h:00004**
  Nonlinear Semigroups, Partial Differential Equations and Attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
  Several Aspects of Algebraic Analysis ★ Daisui kaisekigaku no shoso. (Japanese) [Several aspects of algebraic analysis] **90b:58002**
  Spectral and Scattering Theories of Differential Operators and Related Topics ★ Bibunsayoso no supekutoru sanran riron to sono shuhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] **90d:47003**
Trieste ★ Semigroup theory and applications. **90b:00010**
Washington, DC ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Workshop:
  Nonlinear Evolution Equations and Dynamical Systems ★ Nonlinear evolutions. **90k:00029**
  Solitons in Nonlinear Optics and Plasma Physics ★ Solitons in physics, mathematics, and nonlinear optics. **90m:00048**
  Solitons in Physics and Mathematics ★ Solitons in physics, mathematics, and nonlinear optics. **90m:00048**
Xanthi ★ Differential equations. **90f:00003**

35Axx General theory

35A05 General existence and uniqueness theorems

Del Santo, Daniele Uniqueness of the Cauchy problem for a second order operator. **90i:35004**
Kutev, Nikolaĭ D. *see* **Popivanov, Pet″r R., 90i:35005**
Mizohata, S. On the Levi condition. **90j:35003**
Popivanov, Pet″r R. (*with* Kutev, Nikolaĭ D.) On the existence, uniqueness and smoothness of the solutions of some classes of nonlinear partial differential equations. **90i:35005**
Sadamatsu, Takashi On a necessary condition for the wellposedness of the Cauchy problem for evolution equations. **90i:35006**
Tahara, Hidetoshi Solvability in distributions for a class of singular differential operators. II. **90b:35001**

Items with secondary classifications in 35A05

Cannon, John R. (*with* Lin, Yanping) Classical and weak solutions for one-dimensional pseudo-parabolic equations with typical boundary data. **90c:35129**
Chen, Shi Ming Existence and uniqueness of distribution solutions to the Dirichlet problem for higher-order elliptic equations. (Chinese. English summary) (Not in MR)
Colombini, Ferruccio (*with* Spagnolo, Sergio) Some examples of hyperbolic equations without local solvability. **90d:35164**
El Hussein, Kahar Opérateurs différentiels invariants sur les groupes de déplacements. (English summary) [Differential operators that are invariant under motion groups] **90c:22029**
Graffi, Dario On a method for proving uniqueness theorems in mathematical physics. (Italian) **90k:35228**
Langenbruch, Michael Complemented kernels of partial differential operators in weighted spaces of (generalized) functions. **90f:46063**
Lin, Yanping *see* **Cannon, John R., 90c:35129**
Lyubomudrova, O. Yu. A partial differential equation. **90i:35071**
Mizohata, S. On the Cauchy problem for hyperbolic equations in C^∞ and Gevrey classes. **90c:35135**
Spagnolo, Sergio *see* **Colombini, Ferruccio, 90d:35164**
Tarama, S. On the initial value problem for the weakly hyperbolic operators in the Gevrey classes. **90j:35131**
Trione, Susana Elena On Marcel Riesz's ultrahyperbolic kernel. **90a:35159**

35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Bergamasco, Adalberto P. (*with* Ribeiro, Hermano de Souza) Uniqueness in a doubly characteristic Cauchy problem. **90e:35003**
Cardoso, Fernando A necessary condition for Gevrey solvability of differential equations with double characteristics. **90m:35004**
Chen, Shu Xing Necessary conditions on local solvability of boundary value problems for linear PDE. **90b:35002**
Colombini, Ferruccio (*with* Spagnolo, Sergio) A nonuniqueness result for the operators with principal part $\partial_t^2 + a(t)\partial_x^2$. **90m:35005**
Cordaro, P. (*with* Hounie, Jorge) Local solvability in C_c^∞ of over-determined systems of vector fields. **90j:35004**
Corli, Andrea On local solvability in Gevrey classes of linear partial differential operators with multiple characteristics. **90a:35001**
Cui, Shang Bin On the local solvability of Mizohata equations. (Chinese. English summary) **90c:35001**
— Initial value problems for an equation of Mizohata type. (Chinese. English summary) **90d:35006**
Dai, Zheng De *see* **Yang, Guang Jun, 90c:35002**
Hounie, Jorge *see* **Cordaro, P., 90j:35004**
Ninomiya, Haruki Necessary and sufficient conditions for the local solvability of the Mizohata equations. **90e:35004**
Popivanov, Pet″r R. Local and microlocal properties of the solutions of some classes of linear differential operators. (Bulgarian. English summary) **90h:35007**
Ribeiro, Hermano de Souza *see* **Bergamasco, Adalberto P., 90e:35003**
Saint Raymond, Xavier Unicité de Cauchy à partir de surfaces faiblement pseudo-convexes. (English summary) [Cauchy uniqueness from weakly pseudoconvex surfaces] **90i:35007**
Spagnolo, Sergio *see* **Colombini, Ferruccio, 90m:35005**
Wang, Wei Ke Uniqueness of solution to Cauchy problems for partial differential equations with characteristics of multiplicity greater than 3. (Chinese) **90e:35005**
Yang, Guang Jun (*with* Dai, Zheng De) Uniqueness of nonflat solution for a class of Fuchsian equations with complex coefficients. **90c:35002**

Items with secondary classifications in 35A07

Corli, Andrea *see* **Rodino, Luigi, 90m:35110**
Del Santo, Daniele Uniqueness of the Cauchy problem for a second order operator. **90i:35004**
Dement′eva, N. V. *see* **Romanov, V. G., 90m:35200**
Fang, Ai Nong On conditions of the ellipticity and elasticity for the complex equations of second order. (Chinese summary) **90a:35081**
Flyud, V. M. A mixed problem for a singularly perturbed equation of hyperbolic type. (Ukrainian. Russian summary) (Not in MR)
Jerison, D. An elementary approach to local solvability for constant coefficient partial differential equations. **90k:35062**
Jiang, Lu Min Local regular solutions to analytic pseudodifferential equations of Fuchs type. (Chinese. English summary) **90i:35298**
Lerner, N. Sufficiency of condition (ψ) for local solvability in two dimensions. **90a:35242**
Myslivets, S. G. *see* **Znamenskiĭ, S. V., 90e:35038**
Popelyukhin, A. S. Local solvability of pseudo-differential operators with double characteristics. **90f:35219**
Rodino, Luigi (*with* Corli, Andrea) Gevrey solvability for hyperbolic operators with constant multiplicity. **90m:35110**
Romanov, V. G. (*with* Dement′eva, N. V.) Local solvability and regularization of an inverse problem for a telegraph equation in a cylindrical domain. (Russian) **90m:35200**
Teodoru, Georgeta Le problème de Picard pour une équation aux dérivées partielles multivoque. (Romanian summary) [The Picard problem for a multivalued partial differential equation] **90f:35217**
Znamenskiĭ, S. V. (*with* Myslivets, S. G.) A criterion for local solvability of partial differential equations with constant coefficients. **90e:35038**
Zuily, C. Existence locale de solutions C^∞ pour l'équation de Monge-Ampère. (English summary) [Local existence of C^∞ solutions for the Monge-Ampère equation] **90e:35078**
— Existence locale de solutions C^∞ pour des équations de Monge-Ampère changeant de type. (English summary) [Local existence of C^∞ solutions for Monge-Ampère equations of changing type] **90h:35093**

35A08 Fundamental solutions

Yagdzhyan, K. A. Necessary conditions for the well-posedness of the Cauchy problem for operators with multiple characteristics. **90j:35005**

Items with secondary classifications in 35A08

An, You Shan An explicit fundamental solution for the operator $\mathscr{L}_0'$ on the Heisenberg group H_n. (Chinese. English summary) **90f:58164**
— (*with* Luo, Xue Bo) A fundamental solution for the operator $\mathscr{L}_\alpha'$ on the Heisenberg group H^n. (Chinese) **90k:58258**
Cui, Shang Bin Local fundamental solutions and local solvability of a class of left invariant differential operators on the Heisenberg group. (Chinese. English summary) **90i:58190**
Frolov, N. N. The structure of fundamental functions of infinite-dimensional differential operators. (Russian) **90j:35190**
Lelikova, E. F. Asymptotic behavior of the fundamental solution of a parabolic equation in the critical case. (Russian) **90k:35036**
Li, Lige *see* **Ramm, Alexander G., 90a:35067**
Li, Zhi Bin (*with* Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) **90k:58221**
Luo, Xue Bo *see* **Li, Zhi Bin, 90k:58221** *and* **An, You Shan, 90k:58258**
Ramm, Alexander G. (*with* Li, Lige) Estimates for Green's functions. **90a:35067**

35A10 Cauchy-Kowalewski theorems

Dubinskiĭ, Yu. A. The necessity of Kovalevskaya conditions, and their generalizations. **90e:35006**
Ge, Nan Xiang A generalization of Asgeirsson's mean value formula. (Chinese) **90b:35003**
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35A30 Geometric theory, characteristics, transformations

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Dzvonik, A. Ya. *see* **Zhuk, M. V.**, (Not in MR)
Golichev, I. I. Approximation of the solution of a mixed problem for a parabolic equation. (Russian) (*see* **90d:41001**)
Gubal′, L. O. *see* **Kostenko, V. G.**, (Not in MR)
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Lukmanov, R. L. Approximation of the solution of a hyperbolic problem. (Russian) (*see* **90d:41001**)
McCoy, Peter A. Near-best approximate solutions for a class of elliptic partial differential equations. **90c:35005**
Nesenenko, L. M. A method for obtaining an approximate solution of a boundary value problem for the heat equation in the presence of a source of power type and a moving boundary. (Russian) **90g:35008**
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Shcherbina, V. A. Fundamental solutions of three-dimensional cellular problems for some equations of mathematical physics. (Russian) **90c:35006**
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Timoshin, O. A. Best approximation of partial differential operators. **90i:35016**
Trần Đú’c Vân (*with* Nguyen Duy Thai Son; Đinh Dung) Approximately solving Cauchy problem for the wave equation by the method of differential operators of infinite order. **90k:35011**
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Zhuk, M. V. (*with* Dzvonik, A. Ya.) A study of the rate of convergence of the Kantorovich method for systems of linear differential equations. (Ukrainian. Russian summary) (Not in MR)

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Becker, Ronald I. (*with* New, Ronald) The approximation of exterior Neumann problems in a halfspace by means of problems with compact boundary. **90j:35065**
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35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05.}

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35A99 None of the above, but in this section

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Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) **90g:12009**
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Sadyrkhanov, R. S. Local and global implicit function theorems for equations with singularities. **90i:58008**

35Bxx Qualitative properties of solutions

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Ishii, Hitoshi (*with* Lions, P.-L.) Viscosity solutions of fully nonlinear second-order elliptic partial differential equations. **90m:35015**
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Dal Passo, Roberta *see* **Bertsch, M.; et al., 90m:35085** *and* **90m:35086**
Kondrat′ev, V. A. (*with* Landis, E. M.) Qualitative properties of solutions of some nonlinear elliptic equations. (Russian) (*see* **90k:00021**)
Landis, E. M. *see* **Kondrat′ev, V. A.**, (**90k:00021**)
Struwe, Michael On the evolution of harmonic maps in higher dimensions. **90j:58037**
Ughi, Maura *see* **Bertsch, M.; et al., 90m:35085** *and* **90m:35086**

35B05 Comparison theorems; oscillation, zeros and growth of solutions

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Allegretto, W. (*with* Huang, Yin Xi) On positive solutions of a class of fourth order elliptic systems. **90i:35017**
Barles, G. (*with* Perthame, B.) Comparison principle for Dirichlet-type Hamilton-Jacobi equations and singular perturbations of degenerated elliptic equations. **90m:35017**
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— (*with* Hess, Peter) Stability and uniqueness of positive solutions for a semi-linear elliptic boundary value problem. **90j:35009**
Bugir, M. K. (*with* Dobrotvor, I. G.) Oscillability conditions for nonlinear equations in spaces of constant curvature. (Russian) **90j:35010**
— (*with* Dobrotvor, I. G.) Oscillability of solutions of differential equations in spaces of constant curvature. (Russian) **90h:35016**
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Chen, Cai Sheng Blow-up of weak solutions to a class of degenerate parabolic systems of equations. (Chinese. English summary) **90c:35008**
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35B10 Periodic solutions

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35B25 Singular perturbations

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— Estimates for a solution of the Cauchy problem for a singularly perturbed hyperbolic equation. (Ukrainian. Russian summary) (Not in MR)
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Ashino, Ryuichi The reducibility of the boundary conditions in the one-parameter family of elliptic linear boundary value problems. I. **90d:35077**
Avellaneda, Marco (*with* Lin, Fang-Hua) Homogenization of Poisson's kernel and applications to boundary control. **90g:35016**
Bagaev, B. M. A study of a parabolic equation with a small parameter multiplying the highest derivative. (Russian) **90i:65188**
Bardi, Martino An asymptotic formula for the Green's function of an elliptic operator. **90e:35050**
Bayada, Guy (*with* Chambat, Michèle) Homogenization of the Stokes system in a thin film

flow with rapidly varying thickness. (French summary) **90e:76060**

Bensoussan, A. (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**

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Bosse, Marie-Pascale (*with* Showalter, R. E.) Homogenization of the layered medium equation. **90m:35103**

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Coclite, Mario Michele Perturbations of nondegenerate solutions of some semilinear Dirichlet problems. (Italian summary) **90i:35102**

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Esham, Benjamin F., Jr. A hyperbolic singular perturbation of Burgers' equation. **90k:35223**

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Fusco, G. (*with* Hale, Jack K.) Slow-motion manifolds, dormant instability, and singular perturbations. **90i:35131**

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— A construction of the perturbed solution of semilinear elliptic equation in the singularly perturbed domain. **90j:35080**

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Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Asymptotic behaviour of an elastic body with a surface having small stuck regions. (French summary) **90b:73053**

Marcati, Pierangelo Convergence of approximate solutions to scalar conservation laws by degenerate diffusion. **90j:35136**

Markowich, Peter A. (*with* Szmolyan, Peter) A system of convection-diffusion equations with small diffusion coefficient arising in semiconductor physics. **90k:35140**

Mascarenhas, Maria Luisa A result of homogenisation for a viscoelastic equation with nonperiodic coefficients. (*see* **90f:00003**)

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Szmolyan, Peter A nonlinear hyperbolic system occurring in semiconductor device physics. **90f:35139**

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Tadlaoui, Ahmed (*with* Tapiéro, Roland) Calcul par homogénéisation des microcontraintes dans une plaque hétérogène dans son épaisseur. (English summary) [Calculation of microstresses in a thick heterogeneous plate using homogenization] **90a:73036**

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35B30 Dependence of solutions on initial and boundary data, parameters

Ames, Karen A. (*with* Levine, Howard A.; Payne, L. E.) Improved continuous dependence results for a class of evolutionary equations. (*see* **90f:00004**)

Fang, Zhen Zhen The domain of existence for positive solutions of boundary value problems of the equation $\Delta u + f(u) = 0$, and the quenching phenomenon. (Chinese. English summary) **90c:35021**

Gushchin, A. K. Dependence of the behavior, for large time values, of a solution of a parabolic equation on the data of the problem. (Russian) **90f:35021**

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Bona, J. L. (*with* Winther, R.) The Korteweg-de Vries equation in a quarter plane, continuous dependence results. **90e:35134**
Cannon, John R. (*with* Lin, Yanping) Classical and weak solutions for one-dimensional pseudo-parabolic equations with typical boundary data. **90c:35129**
Chipot, M. (*with* Weissler, F. B.) Some blowup results for a nonlinear parabolic equation with a gradient term. **90h:35033**
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Faminskiĭ, A. V. The Cauchy problem for the Korteweg-de Vries equation and its generalizations. (Russian. English summary) **90c:35173**
Friedman, Avner (*with* Vogelius, Michael) Identification of small inhomogeneities of extreme conductivity by boundary measurements: a theorem on continuous dependence. **90c:35198**
Gagnidze, A. G. The uniqueness of solutions of boundary value problems for parabolic equations in unbounded domains. (Russian. English summary) **90d:35130**
Harris, Greg A. A nonlinear Dirichlet problem with nonhomogeneous boundary data. **90m:35066**
Heijmans, H. J. A. M. (*with* Metz, J. A. J.) Small parameters in structured population models and the Trotter-Kato theorem. **90h:92019**
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Sidorowicz, Józef On the fundamental solution of a parabolic equation with small parameters. (Russian) **90c:35100**
Sokołowski, J. (*with* Zolésio, J.-P.) Shape sensitivity analysis in the presence of singularities. **90c:35024**
Song, J. C. Continuous dependence on the time and spatial geometry for the Navier-Stokes equations. **90d:35247**
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35B32 Bifurcation

Antonishin, I. O. (*with* Parasyuk, I. O.) Bifurcation of localized centrally symmetric solutions of a nonlinear biharmonic equation. (Russian. English summary) **90k:35021**
Bridges, Thomas J. The Hopf bifurcation with symmetry for the Navier-Stokes equations in $(L_p(\Omega))^n$, with application to plane Poiseuille flow. **90f:35022**
Calsina Ballesta, Ángel Stability of bifurcating solutions of reaction-diffusion equations of cylindrical domains. **90i:35034**
Chiappinelli, R. Remarks on bifurcation for elliptic operators with odd nonlinearity. **90f:35023**
Conrad, F. (*with* Yebari, N.) Multiple solutions in reaction-diffusion systems with a free boundary. **90a:35018**
Esquinas, J. (*with* López-Gómez, J.) Multiparameter bifurcation for some particular reaction-diffusion systems. **90k:35022**
Fila, Marek Stabilization of solutions of a reaction-diffusion equation. (*see* **90m:35003**)
Huang, Yin Xi (*with* So, Joseph W.-H.) An application of multiparameter bifurcation theory to equations of the chemostat. (*see* **90j:00016**)
Kashchenko, S. A. Spatial singularities of high-mode bifurcations of two-component systems with small diffusion. **90h:35028**
Lin, Sung Shan On non-radially symmetric bifurcation in the annulus. **90m:35028**
Loginov, B. V. (*with* Sabirova, S. G.) Branching of periodic solutions of nonlinearly perturbed elliptic equations. (Russian) **90d:35023**
López-Gómez, J. *see* **Esquinas, J., 90k:35022**
Memory, Margaret C. Bifurcation and asymptotic behavior of solutions of a delay-differential equation with diffusion. **90m:35029**
do Nascimento, Arnaldo Simal Bifurcation and stability of radially symmetric equilibria of a parabolic equation with variable diffusion. **90d:35024**
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Taliaferro, Steven D. Stability and bifurcation of traveling wave solutions of nerve axon type equations. **90i:35035**
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Afendikov, A. L. (*with* Babenko, K. I.) Mathematical modeling of turbulence in flows of a viscous incompressible fluid. (Russian) **90m:76038**
Amick, C. J. (*with* Turner, R. E. L.) Small internal waves in two-fluid systems. **90h:76037**
Antman, Stuart S. Damping in nonlinear solid mechanics. **90c:73038**
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Armbruster, Dieter (*with* Guckenheimer, John; Holmes, Philip J.) Kuramoto-Sivashinsky dynamics on the center-unstable manifold. **90f:58125**
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— (*with* Smoller, J. A.) Symmetry-breaking for systems of nonlinear elliptic equations. **90j:35086**
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Chow, Shui-Nee (*with* Deng, Bo) Bifurcation of a unique stable periodic orbit from a homoclinic orbit in infinite-dimensional systems. **90e:58115**
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Degiovanni, M. (*with* Marino, Antonio) Nonsmooth variational bifurcation. (Italian summary) **90g:58020**
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Dockery, J. D. (*with* Keener, J. P.) Diffusive effects on dispersion in excitable media. **90d:35147**
Érdi, P. (*with* Tóth, J.) ★ Mathematical models of chemical reactions. **90h:92037**
Evtukhov, V. M. *see* **Schneider, Klaus R., 90a:35121**
Furter, J. (*with* Grinfeld, Michael) Local vs. nonlocal interactions in population dynamics. **90g:92061**
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Griffiths, D. F. (*with* Mitchell, Andrew Ronald) Stable periodic bifurcations of an explicit discretization of a nonlinear partial differential equation in reaction diffusion. **90h:65146**
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Grossinho, M. R. Some existence and bifurcation results for nonlinear elliptic problems in strip-like domains. **90a:35089**
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Koulikov, Anatoli Bifurcation d'Andronov-Hopf et systèmes d'équations aux dérivées partielles singulières de type parabolique. [Andronov-Hopf bifurcation and systems of singular partial differential equations of parabolic type] **90d:35133**
Larchenko, V. V. Bifurcationally ill-posed problems and deterministic phenomena under conditions of singular perturbation. **90k:35019**
— Bifurcational indeterminacy and fluctuation of branching points under conditions of singular perturbation. (Russian) **90m:73034**
Lazer, A. C. Introduction to multiplicity theory for boundary value problems with asymmetric nonlinearities. **90c:35093**
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Reiss, Edward L. *see* **Magnan, Jerry F., 90a:76088**
Rempel, S. (*with* Schulze, B.-W.) Branching of asymptotics for elliptic operators on manifolds with edges. (*see* **90m:35003**)
Renardy, Yuriko Weakly nonlinear behavior of periodic disturbances in two-layer Couette-Poiseuille flow. **90k:76051**
Ruf, Bernhard Multiplicity and eigenvalue intersecting nonlinearities. **90j:35092**
Ruotsalainen, K. *see* **Neittaanmäki, Pekka, 90f:65197**
Sanchez-Hubert, J. Perturbation des valeurs propres pour des systèmes avec masse concentrée. (English summary) [Perturbation of the eigenvalues for systems with concentrated mass] **90j:35151**
Schneider, Klaus R. (*with* Evtukhov, V. M.) On the existence of self-induced waves of the van der Pol equation with diffusion. **90a:35121**
Schulze, B.-W. *see* **Rempel, S., (90m:35003)**
Smoller, J. A. *see* **Chêng, Kuo Shun, 90j:35085** *and* **90j:35086**
Stuart, A. M. Singular free boundary problems and local bifurcation theory. **90c:35205**
Stuart, Charles A. Bifurcation from the essential spectrum for some noncompact nonlinearities. **90i:58024**
Tóth, J. *see* **Érdi, P., 90h:92037**
Troger, H. *see* **Machinek, A. K., 90c:73057**
Tsiligiannis, Christos A. (*with* Lyberatos, Gerasimos) Normal forms, resonance and bifurcation analysis via the Carleman linearization. **90d:34077**
Turner, R. E. L. *see* **Amick, C. J., 90h:76037**
Wang, Ch'ing An Multiple solutions of problems of ice melting in porous media. **90i:76140**
Willem, M. Bifurcation, symmetry and Morse theory. (Italian summary) **90k:58044**
Wolfe, Peter Bifurcation theory of an elastic conducting rod in a magnetic field. **90a:73085**
Xue, Ru Ying Existence of multiple solutions to the Dirichlet problem for nonlinear degenerate elliptic equations. (Chinese. English summary) **90d:35108**
Yu, Qing Yu *see* **Ma, Tian, 90b:58039**
Zelenin, A. A. (*with* Zubov, L. M.) Behavior of a thick round plate after the loss of stability. **90b:73032**
Zhang, Dong On multiple solutions of $\Delta u + \lambda u + |u|^{4/(n-2)}u = 0$. **90i:35111**
Zhu, Xi Ping Multiple solutions of semilinear elliptic equations on $\mathbf{R}^n$. (Chinese) **90k:35108**
Zubov, L. M. *see* **Zelenin, A. A., 90b:73032**

35B35 Stability, boundedness

Amonov, B. K. (*with* Mukhitdinov, S. R.) An estimate for the stability of the solution of the Cauchy problem for a degenerate parabolic equation. (Russian) (*see* **90d:00029**)
Ashyralyev, A. O. (*with* Sobolevskii, P. E.) Coercive stability of a multidimensional difference elliptic equation of $2m$th order with variable coefficients. (Russian) (*see* **90d:00022**)
Ayeni, R. O. Quenching of solution of a nonlinear boundary value problem of parabolic type. **90e:35017**
Bakhurskii, A. G. (*with* Maĭstrenko, Yu. L.) Stability of solutions of one-dimensional hyperbolic systems with nonlinear boundary conditions of a special type. (Russian) **90f:35025**
Brauner, Claude-Michel (*with* Noor Ebad, Samadollah; Schmidt-Lainé, Claudine) Sur la stabilité d'ondes singulières en combustion. (English summary) [Stability analysis of singular travelling waves in combustion] **90a:35021**
Chen, Goong *see* **Liu, Kang Sheng; et al., 90k:35026**
Cortázar, Carmen (*with* Elgueta, Manuel) Localization and boundedness of the solutions of the Neumann problem for a filtration equation. **90f:35026**
Denisov, V. N. Stabilization of the solution of the Cauchy problem for the heat equation. **90b:35026**
Elgueta, Manuel *see* **Cortázar, Carmen, 90f:35026**
Golovatyĭ, Yu. D. Natural frequencies of a fastened plate with additional mass. **90b:35027**
Gomboev, L. G. Stability estimates for the solution of an ultraparabolic equation. **90a:35022**
Gorodetskiĭ, V. V. Some theorems on the stabilization of solutions of the Cauchy problem for systems that are parabolic in the sense of Shilov in classes of generalized functions. **90a:35023**
Howes, F. A. Recent results in stability theory. (*see* **90j:00016**)
Huang, Fa Lun *see* **Liu, Kang Sheng; et al., 90k:35026**
Kitahara, Kiyoshi *see* **Nakada, Hiromitsu; et al., 90h:35029**
Koike, Minoru *see* **Nakada, Hiromitsu; et al., 90h:35029**
Kolesov, A. Yu. Existence of an asymptotically large number of stable travelling waves in a three-dimensional system of parabolic equations. (Russian) **90c:35022**
— A criterion for the stability of traveling waves of parabolic systems with small diffusion. **90i:35036**
Koshigoe, Hideyuki *see* **Nakada, Hiromitsu; et al., 90h:35029**
Lagnese, John E. Uniform boundary stabilization of thermoelastic plates. **90k:35024**
Lasiecka, I. Stabilization of hyperbolic and parabolic systems with nonlinearly perturbed boundary conditions. **90k:35025**
Lavrenyuk, S. P. Lyapunov stability of a mixed problem for a fourth-order equation. (Ukrainian. Russian summary) (Not in MR)
Liu, Kang Sheng (*with* Huang, Fa Lun; Chen, Goong) Exponential stability analysis of a long chain of coupled vibrating strings with dissipative linkage. **90k:35026**
Maĭstrenko, Yu. L. *see* **Bakhurskiĭ, A. G., 90f:35025**
Mukhitdinov, S. R. *see* **Amonov, B. K., (90d:00029)**
Nakada, Hiromitsu (*with* Kitahara, Kiyoshi; Koike, Minoru; Koshigoe, Hideyuki; Takato, Setsuo) Asymptotic stability of the classical solution for a nonlinear wave equation. (Japanese. English summary) **90h:35029**
Nambu, Takao Output stabilisation for a class of linear parabolic differential equations. **90a:35024**
Niu, Pei Ping On the stability of the equation $u_t = \Delta_u - f(u(t-\tau, x), u(t, x))$. (Chinese. English summary) **90m:35030**
Noor Ebad, Samadollah *see* **Brauner, Claude-Michel; et al., 90a:35021**
Pinchover, Yehuda On positive solutions of second-order elliptic equations, stability results, and classification. **90c:35023**
Sazonov, L. I. (*with* Yudovich, V. I.) Stability of the stationary solutions of parabolic equations and of a Navier-Stokes system in a whole space. **90a:35025**
Schmidt-Lainé, Claudine *see* **Brauner, Claude-Michel; et al., 90a:35021**
Smith, William V. Average stability and decay properties of forced solutions of the wave propagation problems of classical physics in energy and mean norms. **90m:35031**
Sobolevskiĭ, P. E. *see* **Ashyralyev, A. O., (90d:00022)**
Štikonas, Artūras Stability of the solution of differential equations of a one-dimensional viscous ideal gas. **90d:35025**
Takato, Setsuo *see* **Nakada, Hiromitsu; et al., 90h:35029**
Tedeev, A. F. Stabilization of solutions of the first mixed problem for a higher-order quasilinear parabolic equation. **90f:35027**
Yudovich, V. I. *see* **Sazonov, L. I., 90a:35025**

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Amann, Herbert Feedback stabilization of linear and semilinear parabolic systems. **90k:35138**
Amonov, B. K. On the stability of solution of an equation of parabolic type with data on a set of points that are lying in a cube. (Russian) (*see* **90d:00014**)
Antontsev, S. N. Metastable localization of solutions of degenerate parabolic equations of general form. (Russian) **90c:35126**
Barsuk, L. O. An approach to the investigation of the absolute stability of nonlinear systems with a nonstationary linear part. (Russian) **90f:34100**
— Absolute stability of nonlinear distributed systems with several nonlinearities. (Russian) (Not in MR)
Bobisud, L. E. Existence and behavior of positive solutions for a class of parabolic reaction-diffusion equations. **90a:35116**
Bulanzhe, E. N. Qualitative analysis of a model of the dynamics of a limited age structure. (Russian) **90a:92039**
Cazenave, Thierry (*with* Esteban, Maria J.) On the stability of stationary states for nonlinear Schrödinger equations with an external magnetic field. (Portuguese summary) **90d:35254**
DiPerna, R. J. (*with* Lions, P.-L.) Équations différentielles ordinaires et équations de transport avec des coefficients irréguliers. [Ordinary differential equations and transport equations with irregular coefficients] **90m:58024**
Èĭdel'man, S. D. *see* **Kushits'kiĭ, Ya. S., 90f:35084**
Esteban, Maria J. *see* **Cazenave, Thierry, 90d:35254**
Fiebig-Wittmaack, Melitta Multiplicity of solutions of a nonlinear boundary problem with homogeneous Neumann boundary conditions. **90a:34045**
Garroni, M. G. (*with* Vivaldi, M. A.) Stability of free boundaries. **90d:35308**
Gil', M. I. Estimates for solutions of quasilinear systems of parabolic type. (Russian) **90f:35095**
González-Velasco, Enrique A. Uniqueness and stability of solutions for a type of parabolic boundary value problem. **90i:35144**
(Hale, Jack K.) *see* **Raugel, Geneviève, 90k:58121**
Hörmander, Lars L^1, L^∞ estimates for the wave operator. **90e:35113**
Ikeda, Hideo (*with* Mimura, Masayasu) Wave-blocking phenomena in bistable reaction-diffusion systems. **90d:35150**
Iliev, Iliya D. (*with* Kirchev, K. P.) Stability of soliton-like solutions for some nonlinear equations of mathematical physics. (Russian. English summary) **90g:35140**
Jones, Christopher K. R. T. Standing waves of nonlinear Schrödinger equations: existence and stability. **90d:35266**
— Instability of standing waves for nonlinear Schrödinger-type equations. **90d:35267**
Kawahara, Takuji (*with* Toh, S.) On some properties of solutions to a nonlinear evolution equation including long-wavelength instability. (*see* **90d:35004**)
Khaĭdarov, A. Estimates for stability in multidimensional inverse problems for differential equations. **90h:35238**
Kirchev, K. P. *see* **Iliev, Iliya D., 90g:35140**
Kushits'kiĭ, Ya. S. (*with* Èĭdel'man, S. D.) Stabilization of the solutions of boundary value problems for the multidimensional heat equation. **90f:35084**
Lakshmikantham, V. (*with* Leela, S.; Martynyuk, A. A.) ★ Stability analysis of nonlinear systems. **90h:34073**
Leela, S. Method of vector Lyapunov functions for reaction-diffusion systems. **90m:35096**
— *see also* **Lakshmikantham, V.; et al., 90h:34073**
Lions, P.-L. *see* **DiPerna, R. J., 90m:58024**
Martynyuk, A. A. *see* **Lakshmikantham, V.; et al., 90h:34073**
Matviĭchuk, K. S. Technical stability of parametrically excited panels in a gas flow. **90g:73072**
Métivier, G. Ondes de choc, ondes de raréfaction et ondes soniques multidimensionnelles. [Multidimensional shock waves, rarefaction waves and sound waves] **90m:35126**
— Stabilité des chocs faibles. [Stability of weak shocks] **90m:35125**
Mimura, Masayasu *see* **Ikeda, Hideo, 90d:35150**

Miyakawa, Tetsuro On L^2 stability of stationary Navier-Stokes flow in exterior domains. **90f:35167**
Morgenröther, K. (*with* Werner, Peter) On the instability of resonances in parallel-plane waveguides. **90d:35161**
Naito, Hisashi A stable manifold theorem for the gradient flow of geometric variational problems associated with quasi-linear parabolic equations. **90c:58032**
do Nascimento, Arnaldo Simal Bifurcation and stability of radially symmetric equilibria of a parabolic equation with variable diffusion. **90d:35024**
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Penning, F. D. A stability theory for initial-boundary value problems of parabolic type. **90j:35031**
Quittner, Pavol On the principle of linearized stability for variational inequalities. **90b:49014**
Raugel, Geneviève Continuity of attractors. (French summary) **90k:58121**
Romaskevich, L. P. Convergence in the mean of solutions of second-order singularly perturbed degenerate elliptic equations. **90i:35113**
Ruggeri, T. Stability and discontinuity waves for symmetric hyperbolic systems. **90k:35160**
Rumyantsev, V. V. Stability and stabilization of motion with respect to some of the variables. (Russian) **90f:34087**
Saxton, R. A. Dynamic instability of the liquid crystal director. **90k:35246**
Strocchi, F. Stability properties of the solutions of nonlinear field equations. Hilbert space sectors and electric charge. **90h:35166**
Taliaferro, Steven D. Stability and bifurcation of traveling wave solutions of nerve axon type equations. **90i:35035**
Temple, Blake Weak stability in the global L^1-norm for systems of hyperbolic conservation laws. **90e:35110**
Toh, S. *see* **Kawahara, Takuji**, (**90d:35004**)
Vázquez, Luis Principles of solitary wave stability. **90j:58072**
Vivaldi, M. A. *see* **Garroni, M. G., 90d:35308**
Wang, Wei Ke Stability estimates for the Cauchy problem for linear partial differential equations with constant coefficients. (Chinese) **90i:35065**
Weinstein, M. I. The nonlinear Schrödinger equation—singularity formation, stability and dispersion. **90m:35188**
Werner, Peter *see* **Morgenröther, K., 90d:35161**
Zhou, Li Global stability of boundary value problems for a class of periodic reaction-diffusion equations. (Chinese. English summary) **90b:35128**

35B37 Control [see also 49–XX, 93–XX]

Adylova, I. V. Optimal control of a system described by a nonlinear equation of heat conduction without a priori estimates. (Russian) **90j:35032**
Avellaneda, Marco (*with* Lin, Fang-Hua) Homogenization of Poisson's kernel and applications to boundary control. **90g:35016**
Bardos, Claude (*with* Lebeau, Gilles; Rauch, Jeffrey) Un exemple d'utilisation des notions de propagation pour le contrôle et la stabilisation de problèmes hyperboliques. [An example of the use of the notions of propagation for the control and stabilization of hyperbolic problems] **90h:35030**
Bogmér, A. On control problems. **90f:35028**
Hunt, L. R. Canonical coordinates and feedback for partial differential equations. (*see* **90j:00016**)
Khludnev, A. M. Limit transitions in optimal control problems for a fourth-order operator. **90g:35017**
Kukhta, K. Ya. Some qualitative properties of the two-dimensional wave equation with singularities in control problems. (Russian) **90j:35033**
Lebeau, Gilles *see* **Bardos, Claude; et al., 90h:35030**
Leugering, Günter (*with* Schmidt, E. J. P. Georg) Boundary control of a vibrating plate with internal damping. **90k:35027**
Lin, Fang-Hua *see* **Avellaneda, Marco, 90g:35016**
Rauch, Jeffrey *see* **Bardos, Claude; et al., 90h:35030**
Schmidt, E. J. P. Georg *see* **Leugering, Günter, 90k:35027**
Serovaĭskiĭ, S. Ya. Optimal control of a system described by a nonlinear equation of elliptic type with phase constraints. (Russian) **90h:35031**
Sokołowski, J. (*with* Zolésio, J.-P.) Shape sensitivity analysis in the presence of singularities. **90c:35024**
Tiba, D. Optimal control for semilinear hyperbolic boundary value problems. **90j:35034**
Triggiani, R. Uniform exponential energy decay of Euler-Bernoulli equations by suitable boundary feedback operators. **90m:35032**
White, Luther Output least square estimation of power-laws in distributed damping models: beams. **90i:35037**
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Adali, S. *see* **Sloss, J. M.; et al., 90g:93064**
Amann, Herbert Feedback stabilization of linear and semilinear parabolic systems. **90k:35138**
Amouroux, M. (*with* Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] **90h:49018**
Avdonin, S. A. (*with* Ivanov, S. A.) A generating matrix function in problems of the control of the vibrations of connected strings. **90k:35145**
Avgerinos, Evgenios P. (*with* Papageorgiou, Nikolaos S.) Infinite horizon optimal control problems for semilinear evolution equations. **90j:49003**
Banks, H. T. (*with* Wang, Chunming) Optimal feedback control of infinite-dimensional parabolic evolution systems: approximation techniques. **90i:93075**
Bardos, Claude (*with* Lebeau, Gilles; Rauch, Jeffrey) Microlocal ideas in control and stabilization. **90g:93068**
— *see also* **Lions, Jacques-Louis, 90a:49040**
Benbrik, A. *see* **Amouroux, M., 90h:49018**
Bensoussan, A. Homogenization of nonlinear elliptic systems with zero order term coupling. **90c:35016**
Bok, I. Optimal control of the bending of viscoelastic plates. (Russian) (*see* **90k:00021**)
Bruch, J. C., Jr. *see* **Sloss, J. M.; et al., 90g:93064**
Chicone, Carmen (*with* Gerlach, Jürgen) Identifiability of distributed parameters. **90i:35280**
Cioranescu, Doïna (*with* Donato, Patrizia) Some remarks on the exact controllability in a neighbourhood of the boundary of a perforated domain. **90m:93012**
Di Vincenzo, R. (*with* Giusti, L.) Perturbations for control processes with distributed parameters. (Italian. English summary) **90e:93009**
Donato, Patrizia *see* **Cioranescu, Doïna, 90m:93012**
Èmanuilov, O. Yu. Boundary controllability of semilinear evolution equations. **90m:93013**
Ewing, Richard E. *see* **Lin, Tao, 90m:35197**
Gerlach, Jürgen *see* **Chicone, Carmen, 90i:35280**
Giusti, L. *see* **Di Vincenzo, R., 90e:93009**
Grisvard, P. Contrôlabilité exacte des solutions de l'équation des ondes en présence de singularités. (English summary) [Exact controllability of solutions of the wave equation in the presence of singularities] **90i:49045**
Grusa, K.-U. ★ Mathematical analysis of nonlinear dynamic processes. **90c:93058**
Gunzburger, Max D. (*with* Nicolaides, R. A.) An algorithm for the boundary control of the wave equation. **90f:65102**
Haraux, A. Une remarque sur la stabilisation de certains systèmes du deuxième ordre en temps. (English summary) [A remark on the stabilization of certain systems of second order in time] **90k:93037**
Huang, Guang Yuan A note on the identification of distributed parameter systems. (Chinese summary) **90f:93027**
Ivanov, S. A. *see* **Avdonin, S. A., 90k:35145**
Jaffard, S. Contrôle interne exact des vibrations d'une plaque carrée. (English summary) [Exact internal control for a vibrating square plate] **90g:73085**
Kecman, V. ★ State-space models of lumped and distributed systems. **90a:93003**
Khadzhiĭski, M. (*with* Patsov, S.) A structural approach to the investigation of objects with distributed parameters on the basis of functional approximation. (Russian. English summary) (Not in MR)
Kobayashi, Toshihiro A digital PI-controller for distributed parameter systems. **90a:93061**
Komornik, V. Exact controllability in short time for the wave equation. **90c:49075**
Lagnese, John E. Asymptotic energy estimates for Kirchhoff plates subject to weak viscoelastic damping. **90k:35180**
— Infinite horizon linear-quadratic regulator problems for beams and plates. **90c:49002**
— Uniform boundary stabilization of thermoelastic plates. **90k:35024**
— Exact boundary controllability of Maxwell's equations in a general region. **90c:93009**
Lasiecka, I. (*with* Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with $L_2(\Sigma)$-control only in the Dirichlet boundary condition. (Italian summary) **90f:93009**
— Controllability of a viscoelastic Kirchhoff plate. **90k:93012**
— (*with* Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with controls in the Dirichlet and Neumann boundary conditions: a nonconservative case. **90j:35130**
— (*with* Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with controls in the Dirichlet and Neumann boundary conditions: a nonconservative case. **90c:93010**
Lebeau, Gilles *see* **Bardos, Claude; et al., 90g:93068** *and* **Lions, Jacques-Louis, 90a:49040**
Lee, E. Bruce *see* **You, Yun Cheng, 90i:93073**
Leugering, Günter On boundary controllability of viscoelastic systems. **90h:49031**
Lin, Tao (*with* Ewing, Richard E.) A note on source term identification for parabolic equations. **90m:35197**
Lions, Jacques-Louis ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 1. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 1] **90a:49040**
— Sentinels for periodic distributed systems. **90m:49030**
Lions, P.-L. Viscosity solutions of fully nonlinear second order equations and optimal stochastic control in infinite dimensions. II. Optimal control of Zakai's equation. **90k:49032**
Liu, Kang Sheng Energy decay problems in the design of a point stabilizer for coupled string vibrating systems. **90b:93085**
Maksimov, V. I. Dynamic modeling of unknown perturbations in parabolic variational inequalities. **90d:35158**
Müller, Stefan Strong convergence and arbitrarily slow decay of energy for a class of bilinear control problems. **90k:93053**
Muñoz Rivera, Jaime E. On the control problem of a parabolic equation. (Portuguese summary) **90j:49013**
Nambu, Takao An extension of stabilizing compensators for boundary control systems of parabolic type. **90m:93099**
Nicolaescu, Liviu I. Optimal control for a nonlinear diffusion equation. **90k:49022**
Nicolaides, R. A. *see* **Gunzburger, Max D., 90f:65102**
Papageorgiou, Nikolaos S. *see* **Avgerinos, Evgenios P., 90j:49003**
Patsov, S. *see* **Khadzhiĭski, M.**, (Not in MR)
Pommaret, J.-F. Problèmes formels en théorie du contrôle aux dérivées partielles. (English summary) [Formal problems in partial differential control theory] **90c:93024**
Popescu, Vasile ★ Control optimal pentru ecuaţii de evoluţie. (Romanian) [Optimal control for evolution equations] **90k:49002**
Rauch, Jeffrey *see* **Bardos, Claude; et al., 90g:93068** *and* **Lions, Jacques-Louis, 90a:49040**
Sadek, I. S. *see* **Sloss, J. M.; et al., 90g:93064**
Serovaĭskiĭ, S. Ya. Some problems on the identification of nonlinear systems with distributed parameters. (Russian) **90a:93042**
Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, I. S.; Adali, S.) Vibration control of a current-carrying wire in a magnetic field. **90g:93064**
Sprekels, J. Stability and optimal control of thermomechanical processes with nonconvex free energies of Ginzburg-Landau type. **90i:35264**
Sunahara, Yoshifumi Some new aspects in parameter estimation for infinite-dimensional systems. (*see* **90m:93002**)
Sushch, V. N. Control in nonlocal boundary value problems. **90b:35233**
Triggiani, R. *see* **Lasiecka, I., 90c:93010; 90f:93009** *and* **90j:35130**
Truchi, C. *see* **Zolésio, J.-P., 90a:35132**

Tsachev, Tsvetomir J. Finite-dimensional approximation for a class of optimal control problems for systems governed by partial differential equations. **90b:93056**
— Optimal control problem for the heat equation. (Bulgarian summary) (*see* **90d:00041**)
Wang, Chunming *see* **Banks, H. T., 90i:93075**
Wang, Kang Ning (*with* Zhang, Bing Zu) Pole assignment problem for distributed parameter control systems. (*see* **90m:93002**)
Weiss, George Admissibility of unbounded control operators. **90c:93060**
You, Yun Cheng (*with* Lee, E. Bruce) Dynamical boundary control of two-dimensional wave equations: vibrating membrane on general domain. **90i:93073**
Zaĭtsev, V. G. Optimal control of two-phase processes with a free boundary. (Russian) **90e:49004**
Zhakova, T. A. Control of the coefficients of an elliptic equation. (Russian) (*see* **90d:00012**)
Zhang, Bing Zu *see* **Wang, Kang Ning, (90m:93002)**
Zolésio, J.-P. (*with* Truchi, C.) Shape stabilization of wave equation. **90a:35132**
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35B40 Asymptotic behavior of solutions

Alikakos, Nicholas D. (*with* Bates, P. W.) Stabilization of solutions for a class of degenerate equations in divergence form in one space dimension. **90g:35018**
Angenent, Sigurd Large time asymptotics for the porous media equation. **90k:35028**
Barashkov, A. S. Asymptotic behavior of the solutions of a system of Maxwell equations. (Russian) **90k:35029**
Bates, P. W. *see* **Alikakos, Nicholas D., 90g:35018**
Bebernes, J. (*with* Kassoy, D.) Characterizing self-similar blow-up. **90i:35038**
— (*with* Eberly, D.) Characterization of blow-up for a semilinear heat equation with a convection term. **90i:35039**
Bloom, C. O. (*with* Kazarinoff, N. D.) Energy decay for hyperbolic systems of second-order equations. **90h:35032**
Borisenko, A. D. The limit behavior of a solution of the Cauchy problem for a parabolic equation. **90f:35029**
Breuer, Shlomo (*with* Roseman, Joseph J.) On spatial energy decay for quasilinear boundary value problems in cone-like and exterior domains. **90d:35026**
Charalambakis, Nicolas Ch. Stabilité asymptotique lorsque $t \to \infty$ en thermoviscoélasticité et thermoplasticité. [Asymptotic stability as $t \to \infty$ in thermoviscoelasticity and thermoplasticity] **90k:35030**
Chen, Xu-Yan (*with* Matano, Hiroshi) Convergence, asymptotic periodicity, and finite-point blow-up in one-dimensional semilinear heat equations. **90e:35018**
Chen, Yun Mei The life span of the solutions to Cauchy problems for nonlinear wave equations. **90e:35019**
Chipot, M. (*with* Weissler, F. B.) Some blowup results for a nonlinear parabolic equation with a gradient term. **90h:35033**
Constantin, P. (*with* Foiaş, Ciprian; Nicolaenko, Basil; Temam, R.) ★ Integral manifolds and inertial manifolds for dissipative partial differential equations. **90a:35026**
— (*with* Foiaş, Ciprian; Gibbon, J. D.) Finite-dimensional attractor for the laser equations. **90h:35034**
Deng, Keng (*with* Levine, Howard A.) On the blow up of u_t at quenching. **90f:35030**
Dłotko, Tomasz Asymptotic behaviour of solutions of the nonlinear heat equation. **90j:35035**
Đoàn Văn Ngọc (*with* Nguyễn Thanh Huong) Asymptotic behavior of the solutions to the mixed problem for hyperbolic second-order equations, in a neighborhood of an edge. (Vietnamese. Russian summary) **90d:35027**
Dobrokhotov, S. Yu. Resonances in the asymptotic behavior of the solution of the Cauchy problem for the Schrödinger equation with rapidly oscillating finite-gap potential. (Russian) **90b:35028**
— Resonance correction of an adiabatically perturbed finite-gap almost periodic solution of the Korteweg-de Vries equation. (Russian) **90h:35035**
Eberly, D. *see* **Bebernes, J., 90i:35039**
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35B65 Smoothness of solutions

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— *see also* **Arkhipova, A. A., 90h:35044**

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Berhanu, S. Propagation of hypo-analyticity along bicharacteristics. **90i:35009**
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Caffarelli, Luis A. A Harnack inequality approach to the regularity of free boundaries. II. Flat free boundaries are Lipschitz. **90b:35246**
Chemin, Jean-Yves Régularité de la solution d'un problème de Cauchy fortement non linéaire à données singulières en un point. (English summary) [Regularity of the solution of a strongly nonlinear Cauchy problem with singular data at a point] **90i:35068**
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— Piecewise smooth solutions of semilinear hyperbolic systems in higher space dimension. **90k:35156**
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Dierkes, Ulrich Minimal hypercones and $C^{0,1/2}$ minimizers for a singular variational problem. **90d:49029**
— A classification of minimal cones in $\mathbf{R}^n \times \mathbf{R}^+$ and a counterexample to interior regularity of energy minimizing functions. **90h:49032**
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Gushchin, A. K. The Dirichlet problem for a second-order elliptic equation. **90k:35083**
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Kwong, Ying C. Interior and boundary regularity of solutions to a plasma type equation. **90d:35143**
Lascar, Bernard (*with* Lascar, Richard) Propagation des singularités Gevrey pour des ondes diffractives. (English summary) [Propagation of Gevrey singularities for diffractive waves] **90d:35008**
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Lieberman, Gary M. Boundary regularity for solutions of degenerate elliptic equations. **90a:35098**
— Intermediate Schauder theory for second order parabolic equations. III. The tusk conditions. **90j:35108**
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Marshall, Bernard The regularity of solutions of nonlinear wave equations. **90d:35190**
Muradov, Kh. R. A mixed boundary value problem for the Schrödinger equation. (Russian. English and Azerbaijani summaries) **90h:35070**
Muratbekov, M. B. (*with* Otelbaev, M.) Smoothness and approximation properties for solutions of a class of nonlinear equations of Schrödinger type. (Russian) **90i:35077**
Nadirashvili, N. S. Continuous solutions of the Neumann problem in Lipschitz domains. (Russian) **90h:35077**
Nakamitsu, Kuniaki Smoothing effects for Schrödinger evolution groups. **90a:47126**
Nakao, Mitsuhiro On some regularity of periodic solutions of the wave equation with a nonlinear or degenerate dissipative term. **90e:35115**
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Oswald, Luc Isolated positive singularities for a nonlinear heat equation. **90k:35128**
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Shishmarëv, I. A. On the smoothing of solutions of the Cauchy problem for a system of equations of surface waves. (Russian) **90d:35246**
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Bernis, Francisco Source-type solutions of fourth order degenerate parabolic equations. **90f:35039**
Kodama, Yuji Nearly integrable systems: normal form and solitons. (*see* **90k:00029**)
Lin, Fang-Hua *see* **Avellaneda, Marco, 90c:35035**
Lin, Sung Shan Symmetry breaking for $\Delta u + 2\delta e^{-u} = 0$ on a disk with general boundary conditions. **90i:35053**
Lions, P.-L. Une approche élémentaire de quelques résultats de symétrisation. [An elementary approach to some symmetrization results] **90a:35039**
Malanin, V. V. *see* **Voronina, N. V.; et al., (90d:00012)**
Perekhrest, V. I. Solution of the second boundary value problem for a second-order nonselfadjoint equation. (Russian) **90d:35045**
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Tartar, L. Discontinuities and oscillations. **90k:35056**
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Avellaneda, Marco (*with* Lin, Fang-Hua) Un théorème de Liouville pour des équations elliptiques à coefficients périodiques. (English summary) [A Liouville theorem for elliptic equations with periodic coefficients] **90j:35072**
Belov, V. V. (*with* Maslov, V. P.) Quasiclassical path-coherent states of the Dirac operator with Pauli's anomalous interaction. **90g:81113**
Benci, Vieri (*with* Fortunato, Donato) A remark on the nodal regions of the solutions of some superlinear elliptic equations. **90c:35074**
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Biroli, Marco Wiener estimates for solutions of elliptic equations in nondivergence form. **90d:35069**
Carfora, M. (*with* Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. **90m:53054**
Chanillo, Sagun (*with* Sawyer, E.) Unique continuation for $\Delta + v$ and the C. Fefferman-Phong class. **90f:35050**
Chueshov, I. D. Strong solutions and the attractor of a system of von Kármán equations. (Russian. English summary) **90f:35177**
Cialdea, Alberto The equation $\Delta_2 u + a_{10}(x,y)\partial u/\partial x + a_{01}(x,y)\partial u/\partial y + a_{00}(x,y)u = F(x,y)$. Completeness theorems. (Italian. English summary) **90d:35066**
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and gridworks] **90c:73027**
Correa, Francisco Julio Sobreira de Araujo On the existence and multiplicity of positive solutions of a semilinear elliptic system. **90h:35098**
Costa, Peter J. (*with* Westlake, Ruth Hampton) An example of computer enhanced analysis. (*see* **90d:00036**)
Denisov, V. N. Stabilization of means of the solution of the Cauchy problem for hyperbolic equations in a space of negative curvature. **90d:35235**
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Heurteaux, Yanick Inégalités de Harnack à la frontière pour des opérateurs paraboliques. (English summary) [Boundary Harnack inequalities for parabolic operators] **90f:35085**
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Kamynin, V. L. On a passage to the limit in a sequence of parabolic equations. (Russian) (*see* **90k:00021**)
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Nasibov, Sh. M. Optimal constants in some Sobolev inequalities and their applications to the nonlinear Schrödinger equation. **90m:35051**
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Popiołek, J. Properties of some integrals that are connected with a higher-order partial differential equation. (Russian) **90e:35036**
Rogers, R. C. (*with* Temple, Blake) A characterization of the weakly continuous polynomials in the method of compensated compactness. **90b:35004**
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Véron, Laurent Geometric invariance of singular solutions of some nonlinear partial differential equations. **90d:35092**
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35Cxx Representations of solutions

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Rogers, Colin (*with* Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. **90i:35001**
Tutschke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. **90k:35006**

35C05 Solutions in closed form

Calogero, F. (*with* De Lillo, S.) The Burgers equation on the semi-infinite and finite intervals. **90a:35040**
De Lillo, S. *see* **Calogero, F., 90a:35040**
Galaktionov, V. A. (*with* Posashkov, S. A.) New exact solutions of parabolic equations with quadratic nonlinearities. (Russian) **90j:35048**
Gautesen, A. K. Oblique derivative boundary conditions and the image method for wedges. **90a:35041**
Gorbach, V. V. *see* **Vorontsov, V. I.; et al., 90d:35046**
Kashcheev, V. N. An "algebraic" method for obtaining solutions of nonlinear equations. (Russian. English summary) **90c:35036**
Kuvshinov, A. P. *see* **Vorontsov, V. I.; et al., 90d:35046**
Nezbailo, T. G. Representation in explicit form of the fundamental solution of a class of equations of parabolic type. (Russian) (*see* **90d:34002**)
Panayotounakos, D. E. (*with* Zisis, Basilios) Closed-form solutions of the nonlinear partial differential equations governing the stress-field in a rigid, perfectly-plastic body. **90i:35055**
Posashkov, S. A. *see* **Galaktionov, V. A., 90j:35048**
Rasulov, M. L. ★ Применение вычетного метода к решению задач дифференциальных уравнений. (Russian) [Application of the residue method to solving problems of differential equations] **90i:35056**
Shanidze, Z. G. Exact solutions of some problems in mechanics. (Russian. English and Georgian summaries) **90b:35042**
Vorontsov, V. I. (*with* Gorbach, V. V.; Kuvshinov, A. P.) A class of solutions of a parabolic equation that describes limited wave beams. (Russian. English summary) **90d:35046**
Zisis, Basilios *see* **Panayotounakos, D. E., 90i:35055**

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Barannik, A. F. (*with* Marchenko, V. A.) Exact solutions of the nonlinear Schrödinger equation in the Minkowski space $R_{1,2}$. (Russian. English summary) **90j:35164**
Berglez, P. Zur Darstellung von verallgemeinerten biaxialsymmetrischen Potentialen. [On the representation of generalized biaxially symmetric potentials] **90g:31004**
Bluman, George W. (*with* Reid, Gregory J.) Sequences of related linear PDEs. **90k:35009**
Chan, W. L. (*with* Zheng, Yu Kun) Exact solutions of nonlinear evolution equations of the AKNS class. **90g:35134**
— (*with* Li, Kam-Shun) Nonpropagating solitons of the variable coefficient and nonisospectral Korteweg-de Vries equation. **90k:35064**
Freeman, Neil C. (*with* Satsuma, Junkichi) Exact solutions describing an interaction of pulses with compact support in a nonlinear diffusive system. **90g:35137**
Fushchich, V. I. (*with* Serov, N. I.; Shtelen′, V. M.) Some exact solutions of many-dimensional nonlinear d'Alembert, Liouville, eikonal, and Dirac equations. **90e:35139**
— (*with* Serov, N. I.) Conditional invariance and exact solutions of a nonlinear equation of acoustics. (Russian. English summary) **90g:35139**
Howison, S. D. (*with* King, John Robert) Explicit solutions to six free-boundary problems in fluid flow and diffusion. **90h:35256**
Hueber, H. A note on the computation of Green functions for sub-Laplacians on Lie algebras of type H. **90c:58177**
Khabirov, S. V. The method of differential substitutions in the solution of boundary value problems. (Russian) **90g:35005**
King, John Robert *see* **Howison, S. D., 90h:35256**
Li, Kam-Shun *see* **Chan, W. L., 90k:35064**
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Slavutskiĭ, S. L. Some solutions of a nonlinear Galilei-invariant analogue of the Lamé equation. (Russian) **90i:35262**
Tajiri, Masayoshi Similarity solutions of soliton equations. **90j:35180**
Tarzia, D. A. Basic theoretical considerations in the one-dimensional two-phase Stefan problem. (Spanish) **90d:35311**
Zheng, Yu Kun *see* **Chan, W. L., 90g:35134**

35C10 Series solutions, expansion theorems

Bondarenko, B. A. ★ Базисные системы полиномиальных и квазиполиномиальных решений уравнений в частных производных. (Russian) [Basis systems of polynomial and quasipolynomial solutions of partial differential equations] **90a:35042**
Dzhabirov, D. K. Representation of the manifold of solutions in the form of series for a fourth-order differential equation with a singular line. (Russian. Tajiki summary) **90b:35043**
Filimonov, M. Yu. Application of special series in solving mixed problems for nonlinear partial differential equations. (Russian) **90a:35043**
Guo, Ben Yu Bergman expansion and its application. **90d:35047**
Haque, S. M. A. The summation of some infinite series arising out of the solution of a partial differential equation. II. **90j:35049**
— The summation of some infinite series arising out of the solution of a partial differential equation. III. **90j:35050**
Korzunin, L. G. Representation of solutions of the Kadomtsev-Petviashvili equation by special series. (Russian) **90b:35044**
Radzhabova, L. Representation of solutions of degenerate elliptic systems of equations by generalized power series. (Russian. Tajiki summary) **90c:35037**
Singh, Gauri Shankar (*with* Singh, Satyendra Narayan) Configurational interference in boundary-value problems governed by the Helmholtz equation. **90c:35038**
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Akopyan, A. A. (*with* Saakyan, A. A.) A system of differential equations that is related to the polynomial class of translates of a box spline. **90k:41016**
Bobula, Eugeniusz On some solution of the diffusion equation. **90d:35126**
Doha, E. H. An accurate solution of parabolic equations by expansion in ultraspherical polynomials. **90j:65141**
Furioli Martinolli, Antonella (*with* Ricci, Maria Lavinia) Continuation and representation of solutions of a Fuchsian partial differential equation. (Italian summary) **90b:35005**
Gedvilaĭte, A. A. (*with* Kaklauskas, L. L.; Jurgaitis, Donatas) A first-order elliptic system with semiregular degeneration. **90d:35110**
Jurgaitis, Donatas *see* **Gedvilaĭte, A. A.; et al., 90d:35110**
Kaklauskas, L. L. *see* **Gedvilaĭte, A. A.; et al., 90d:35110**
Markett, Clemens Product formulas and convolution structure for Fourier-Bessel series. **90i:33012**
Martin, Clyde Franklin (*with* Xie, Shishen) Reconstruction of the solution of Laplace's equation from point measurements on the boundary of a disc. **90d:35291**
Ricci, Maria Lavinia *see* **Furioli Martinolli, Antonella, 90b:35005**
Saakyan, A. A. *see* **Akopyan, A. A., 90k:41016**
Santosa, Fadil On elastodynamic problems in infinite cylinders. **90g:73056**
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Yoshino, Masafumi Convergence of formal solutions for Fuchs-Goursat equations. **90j:35007**

35C15 Integral representations

Abdushukurov, A. M. An integral representation of solutions of the Moisil-Teodorescu system with singularities in the small terms. (Russian) **90g:35029**
Androsova, L. N. *see* **Ivasishen, S. D., 90b:35045**
Antonets, M. A. Representation of the solution of the wave equation in the form of a path integral. **90a:35044**
Gasymov, È. A. Application of an integral transformation to the solution of a mixed problem for a nonclassical equation. (Russian) **90g:35030**
Ivasishen, S. D. (*with* Androsova, L. N.) An integral representation and initial values of solutions of some degenerate parabolic equations. (Russian. English summary) **90b:35045**
Kiselevskiĭ, A. G. *see* **Ulitko, A. F.; et al., 90i:35059**
Kurmushev, I. The third initial-boundary value problem for a parabolic system in a quadrant of the plane. (Russian. Kazakh summary) **90i:35057**

Mirzoev, A. Kh. Integral representations of solutions for a system of first-order equations of hyperbolic type with a singular line. (Russian. Tajiki summary) **90i:35058**

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Shorfi, L. *see* **Ulitko, A. F.; et al.**, **90i:35059**

Tomantschger, Kurt Walter ★ Solutions of a fourth order partial differential equation in four independent variables. **90h:35048**

– On generalized integral operators. **90f:35040**

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Bros, J. Holomorphic integral representations for the solutions of the Helmholtz equation. (*see* **90g:42062**)

— (*with* Omnès, Roland) Holomorphic integral representations for outgoing-waves in $\mathbf{R}^n$. **90f:35045**

Brown, Russell M. The initial-Neumann problem for the heat equation in Lipschitz cylinders. **90k:35112**

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— ★ Parabolic equations on an infinite strip. **90e:35001**

35C20 Asymptotic expansions

Barashkov, A. S. Asymptotic representations of the solution of an inverse problem for the Helmholtz equation. **90c:35041**

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Danilov, V. G. (*with* Zhevandrov, P. N.) Maslov's method for constructing combined asymptotics for *h*-pseudodifferential equations. **90i:35061**

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Kaĭshibaeva, G. K. (*with* Sultangazin, U. M.) Asymptotic behavior of the solution of a boundary value problem for a nonstationary system of equations of the method of spherical harmonics. (Russian) **90d:35049**

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Vakulenko, S. A. A variational principle for nonlinear concentrated waves. (Russian) **90j:35054**

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Aripov, M. M. ★ Методы эталонных уравнений для решения нелинейных краевых задач. (Russian) [Methods of standard equations for solving nonlinear boundary value problems] **90d:35153**

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Henry, Jacques (*with* Louro, Bento) Singular perturbation theory applied to the electrochemistry equations in the case of electroneutrality. **90g:35156**

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Nguyễn Văn Đạo An asymptotic method for studying higher-order quasilinear differential equations. (Russian) **90a:34092**

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— (*with* Volkov, V. T.) Asymptotics of periodic solutions of some systems with small diffusion. (Russian) **90m:35024**
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35C99 None of the above, but in this section

Ad″yutov, M. M. Self-similar solutions of a nonlinear equation of parabolic type. (Russian) **90b:35046**
Barański, Feliks (*with* Musiałek, Jan) The three-parabolic problem for half-space with boundary conditions of Lauricella type. **90d:35050**
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Domański, Zdzisław (*with* Rojek, Z.) Application of Fisher-Riesz-Kupradze method to solving the second Fourier problem. **90k:35058**
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Lepin, L. A. Uniqueness of the monotone solution of a self-similar equation in the theory of nonlinear heat conduction. (Russian) **90b:35047**
Martinenko, Marīya D. (*with* Martynenko, Mikhaĭlo D.) A boundary value problem for a nonstandard elliptic equation. (Ukrainian. Russian summary) (Not in MR)
Martynenko, Mikhaĭlo D. *see* **Martinenko, Marīya D.**, (Not in MR)
Musiałek, Jan *see* **Barański, Feliks, 90d:35050**
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— Applications of fractional calculus to Gauss type partial differential equations. **90e:35034**
— Applications of fractional calculus to a linear third order partial differential equation. **90e:35035**
Popiołek, J. Properties of some integrals that are connected with a higher-order partial differential equation. (Russian) **90e:35036**
Rasulov, A. B. Representation of the manifold of solutions, and a study of a Cauchy type problem for a general system of differential equations with a singular line. (Russian. Tajiki summary) **90d:35051**
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Aleksandrovich, I. N. Differential operators that determine the solution of a class of equations of elliptic type. **90f:35053**
Altin, Abdullah (*with* Young, Eutiquio C.) Kelvin principle for a class of singular equations. **90j:35145**
Avery, John ★ Hyperspherical harmonics. **90g:81002**
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Chinilov, A. Yu. Solution of the wave equation with an oblique derivative on the boundary. (Russian) **90i:35153**
Culumovic, L. (*with* McKeon, D. G. C.) Calculation of off-diagonal elements of the heat kernel. **90j:81134**
Dassios, George (*with* Kleinman, R. E.) On the capacity and Rayleigh scattering for a class of nonconvex bodies. **90h:35061**
— (*with* Kleinman, R. E.) On Kelvin inversion and low-frequency scattering. **90i:35073**
Datta, Barun Kumar A new approach to the wave equation—an application of the decomposition method. **90e:35098**
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Đinh Dung *see* **Trần Đú'c Vân; et al., 90k:35011**
Donato, Andrea (*with* Nucci, Maria Clara) Similarity solutions and spherical discontinuity waves in hyperelastic materials subject to a nonconstant deformation. (Italian summary) **90a:73059**
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Fatyga, B. W. (*with* Kostelecký, V. Alan; Truax, D. Rodney) Grassmann-valued fluid dynamics. **90j:58017**
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Kopets, A. S. Construction of discontinuous solutions of equations in plane elasticity theory by the method of generalized functions. **90b:73007**
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Kubaszewski, Władysław A limit problem for a certain factorised partial differential equation. (Polish summary) **90h:35114**
Kvedaras, Bronius A strongly degenerate elliptic equation with analytic coefficients. (Russian) **90f:35081**
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Leguillon, D. (*with* Sánchez-Palencia, Enrique) Problems in singularity theory and related topics. **90g:73027**
Lesky, P., Jr. Resonance phenomena for a class of partial differential equations of higher order in cylindrical waveguides. **90h:35019**
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Nishimoto, Katsuyuki ★ Fractional calculus. Vol. III. **90m:26016**
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Pastro, Pier I. On the integral representation of F_4 of Appell and its Lauricella generalization. **90e:33018**
Pego, Robert L. (*with* Serre, D.) Instabilities in Glimm's scheme for two systems of mixed type. **90b:65172**
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Roşculeţ, M. N. Analyticity with respect to a differential operator E. II. Solutions of the iterative equation $E^{(n)}(\Phi)=0$. (Romanian. French summary) **90k:35067**
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Shcherbina, V. A. Fundamental solutions of three-dimensional cellular problems for some equations of mathematical physics. (Russian) **90c:35006**
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Timoshin, O. A. Best approximation of partial differential operators. **90i:35016**
Trần Đú'c Vân (*with* Nguyen Duy Thai Son; Đinh Dung) Approximately solving Cauchy problem for the wave equation by the method of differential operators of infinite order. **90k:35011**
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Vorob′ev, E. M. Partial symmetries and integrable multidimensional differential equations. **90f:35193**
Xiong, Xi Jin Hypercomplex functionals. III. Uniqueness theorem and a class of boundary value problems of a new type. (Chinese. English summary) **90b:30058a**
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35Dxx Generalized solutions

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Haraux, A. A new characterization of weak solutions to the damped wave equations. **90g:35105**
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Popivanov, N. I. Weak and strong solutions of boundary value problems. (Russian. English summary) **90h:35052**
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5D05 Existence of generalized solutions

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– Addendum to the paper: "Existence of weak solutions for the Navier-Stokes equations with initial data in L^p". **90k:35200**
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orimoto, Hiroko On the existence of weak solutions of equation of natural convection. **90i:35220**
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uluaga Uribe, Mario Existence of multiple solutions of an elliptic problem with linear part in resonance with the first eigenvalue. (Spanish) **90m:35074**

5D10 Regularity of generalized solutions

ancer, E. N. (*with* Sweers, G.) On the existence of a maximal weak solution for a semilinear elliptic equation. **90h:35049**
ian, Huai Yu Regularity of weak solutions for a class of higher-order nonlinear elliptic systems. (Chinese. English summary) **90a:35048**
ohn, Oldřich (*with* Stará, Jana) Smoothness of weak solutions of quasilinear parabolic systems. (Russian) (*see* **90k:00021**)
– (*with* Malý, Jan; Stará, Jana) Nowhere continuous solutions to elliptic systems. **90h:35050**
orolëv, Alekseĭ Gennad′evich On the boundedness of generalized solutions of elliptic differential equations with nonpower nonlinearities. **90j:35056**
Leonetti, Francesco On the Hölder-continuity of ω-minima. (Italian summary) **90j:35057**
Liang, Xi Ting Boundedness and integrability properties of generalized solutions of elliptic equations. (Chinese. English summary) **90b:35048**
Lu, Wen Duan Global boundedness of weak solutions to second-order quasilinear elliptic equations in divergence form. (Chinese) **90c:35042**
Malý, Jan *see* **John, Oldřich; et al., 90h:35050**
Safiev, È. K. Coincidence of the classical and the generalized solutions of a mixed problem for a parabolic equation. **90j:35058**
Stará, Jana *see* **John, Oldřich; et al., 90h:35050** *and* (**90k:00021**)
Sweers, G. *see* **Dancer, E. N., 90h:35049**
Yang, Zhi Huo Two estimates for weak solutions to second-order nonlinear elliptic equations. (Chinese. English summary) **90k:35060**
Ziemer, William P. Regularity of weak solutions of parabolic variational inequalities. **90g:35031**

Items with secondary classifications in 35D10

Berhanu, S. Propagation of hypo-analyticity along bicharacteristics. **90i:35009**
Dauge, Monique Stationary Stokes and Navier-Stokes systems on two- or three-dimensional domains with corners. I. Linearized equations. **90b:35191**
Derridj, Makhlouf Sur l'existence de solutions $C^{1,1/n}$, $C^{1,1}$ et C^2, radiales pour des équations de type Monge-Ampère complexe dans la boule unité de $\mathbf{C}^n$. [Existence of radial $C^{1,1/n}$, $C^{1,1}$ and C^2 solutions for complex Monge-Ampère equations in the unit ball in $\mathbf{C}^n$] **90b:32034**
Faminskiĭ, A. V. The Cauchy problem for the Korteweg-de Vries equation and its generalizations. (Russian. English summary) **90c:35173**
Gallouët, Thierry (*with* Mignot, Fulbert; Puel, Jean-Pierre) Quelques résultats sur le problème $-\Delta u = \lambda e^u$. (English summary) [A few results on the equation $-\Delta u = \lambda e^u$] **90c:35088**
Gröger, Konrad A $W^{1,p}$-estimate for solutions to mixed boundary value problems for second order elliptic differential equations. **90d:35035**
Mignot, Fulbert *see* **Gallouët, Thierry; et al., 90c:35088**
Mikhaĭlova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. **90d:35080**
Puel, Jean-Pierre *see* **Gallouët, Thierry; et al., 90c:35088**
Rakotoson, J.-M. (*with* Ziemer, William P.) Local behavior of solutions of quasilinear elliptic equations with general structure. **90j:35082**
Rauch, Jeffrey (*with* Reed, Michael C.) Bounded, stratified and striated solutions of hyperbolic systems. **90f:35122**
Reed, Michael C. *see* **Rauch, Jeffrey, 90f:35122**
Xu, Chao Jiang (*with* Zuily, C.) Smoothness up to the boundary for solutions of the nonlinear and nonelliptic Dirichlet problem. **90c:35034**
Ziemer, William P. *see* **Rakotoson, J.-M., 90j:35082**
Zuily, C. *see* **Xu, Chao Jiang, 90c:35034**

35D99 None of the above, but in this section

Liang, Xi Ting Improved estimates of the maximum modulus of generalized solutions to linear second-order elliptic and parabolic equations. (Chinese. English summary) **90k:35061**
Zhitarashu, N. V. Boundary values of weak generalized solutions of systems of parabolic equations. (Russian) **90d:35052**

Items with secondary classifications in 35D99

Antontsev, S. N. (*with* Díaz Díaz, Jesús Ildefonso) New results on the localization of solutions of nonlinear elliptic and parabolic equations that are obtained by the energy method. **90d:35068**
Díaz Díaz, Jesús Ildefonso *see* **Antontsev, S. N., 90d:35068**
Kosiński, Witold On the concept of weak solutions in the BV-space. **90f:35126**
Mochizuki, Kiyoshi (*with* Suzuki, Ryuichi) Asymptotic behavior for weak solutions of a porous media equation. **90b:35035**
Suzuki, Ryuichi *see* **Mochizuki, Kiyoshi, 90b:35035**

35Exx Equations and systems with constant coefficients [see also 35N05]

35E05 Fundamental solutions

Items with secondary classifications in 35E05

Sidorowicz, Józef On the fundamental solution of a parabolic equation with small parameters. (Russian) **90c:35100**
Trione, Susana Elena On Marcel Riesz's ultrahyperbolic kernel. **90a:35159**

35E10 Convexity properties

Tintarev, Kyril On the geometry of P-convex sets for operators of real principal type. **90d:35053**

35E15 Initial value problems

Wang, Wei Ke Stability estimates for the Cauchy problem for linear partial differential equations with constant coefficients. (Chinese) **90i:35065**

Items with secondary classifications in 35E15

Calogero, F. (*with* De Lillo, S.) Cauchy problems on the semiline and on a finite interval for the Eckhaus equation. **90b:35201**
De Lillo, S. *see* **Calogero, F., 90b:35201**
Napalkov, V. V. The Cauchy problem for convolution operators. (Russian) **90c:46051**

Shapiro, Harold S. An algebraic theorem of E. Fischer, and the holomorphic Goursat problem. **90m:35008**

35E20 General theory

Akopyan, A. A. (*with* Saakyan, A. A.) A class of systems of partial differential equations. (Russian) **90j:35059**
Charrière, H. Existence de bases opérateurs pour l'espace des solutions des équations aux dérivées partielles linéaires à coefficients constants. II. [Existence of operator bases for the space of solutions of linear partial differential equations with constant coefficients. II] **90b:35049**
Gadetskaya, S. V. Well-posed multipoint problems in a strip for differential equations with loads. (Russian) **90g:35032**
Jerison, D. An elementary approach to local solvability for constant coefficient partial differential equations. **90k:35062**
Krone, Jörg Partial differential operators without right inverse on the tempered distributions. **90j:35060**
Mustafaeva, L. F. The behavior as $t \to +\infty$ of the solution of a mixed problem for higher-order equations with constant coefficients in a quarter space that are well posed in the sense of I. G. Petrovskiĭ. (Russian. English and Azerbaijani summaries) **90h:35051**
Myslivets, S. G. *see* **Znamenskiĭ, S. V., 90e:35038**
Saakyan, A. A. *see* **Akopyan, A. A., 90j:35059**
Tervo, J. On algebraic characterization of coercive linear partial differential operators with constant coefficients. **90e:35037**
Tovmasyan, N. E. Well-posed boundary value problems for a system of partial differential equations in a half-space in a class of functions with at most polynomial growth. **90f:35041**
Znamenskiĭ, S. V. (*with* Myslivets, S. G.) A criterion for local solvability of partial differential equations with constant coefficients. **90e:35038**

Items with secondary classifications in 35E20

Berndtsson, Bo (*with* Passare, Mikael) Integral formulas and an explicit version of the fundamental principle. **90i:32006**
Langenbruch, Michael Complemented kernels of partial differential operators in weighted spaces of (generalized) functions. **90f:46063**
Laurent, Yves Problème de Cauchy pour les hyperfonctions à croissance. [Cauchy problem for increasing hyperfunctions] **90m:58197**
Liang, Yuan Di Principal operators and principal normal operators of degree K. (Chinese. English summary) **90i:35011**
Malamud, M. M. A priori estimates for differential operators in the uniform norm. (Russian) **90g:35023**
Mukhamadiev, È. On the theory of differential equations in a space of bounded generalized functions. (Russian. Tajiki summary) **90m:46066**
Pahk, Dae Hyeon On the Gevrey regularity of hypoelliptic boundary value problems. **90k:35054**
Pap, Endre (*with* Takači, Djurdjica) Estimations for the solutions of operator linear differential equations. **90a:35003**
Passare, Mikael *see* **Berndtsson, Bo, 90i:32006**
Takači, Djurdjica *see* **Pap, Endre, 90a:35003**
Tarkhanov, N. N. A Laurent expansion and local properties for solving elliptic systems. **90d:35082**
Timoshin, O. A. Best approximation of partial differential operators. **90i:35016**

35Fxx General first-order equations and systems

35F05 Linear equations and systems, general

Kim, Jongsik (*with* Suk, Yong Jing) Reducibility of a complex vector field to a Mizohata type operator. **90c:35043**
Suk, Yong Jing *see* **Kim, Jongsik, 90c:35043**

Items with secondary classifications in 35F05

Lin, Xiao-Biao *see* **Neves, Aloisio Freiria, 90d:47051**
Neves, Aloisio Freiria (*with* Lin, Xiao-Biao) A multiplicity theorem for hyperbolic systems. **90d:47051**
Száz, Á. An application of an implicit function theorem to a partial differential equation. **90i:35276**

35F10 Initial value problems for linear equations and systems

Items with secondary classifications in 35F10

Tutschke, Wolfgang Contraction-mapping principles for initial value problems with generalized analytic initial functions. **90k:35007**

35F15 Boundary value problems for linear equations and systems

Popivanov, N. I. Weak and strong solutions of boundary value problems. (Russian. English summary) **90h:35052**

Items with secondary classifications in 35F15

Beirão da Veiga, H. On a linear nonelliptic system concerning the dynamic of stationary motions. (Italian summary) **90d:35237**
— Existence results in Sobolev spaces for a stationary transport equation. **90d:35238**
— Kato's perturbation theory and well-posedness for the Euler equations in bounded domains. **90d:35239**
— Boundary-value problems for a class of first order partial differential equations in Sobolev spaces and applications to the Euler flow. **90d:35240**
Cheng, Jin^2 On Riemann-Hilbert boundary value problems for complex overdetermined partial differential equations of first order. **90i:35193**
Samsoniya, Z. V. On quasiconformal mapping of simply connected domains. (Russian) **90b:30026**

35F20 Nonlinear equations and systems, general

Bengel, Gunter Linearization and singular partial differential equations. **90j:35061**
Cannarsa, P. (*with* Soner, H. Mete) Generalized one-sided estimates for solutions of Hamilton-Jacobi equations and applications. **90d:35054**
Chebotarëv, A. M. *see* **Konstantinov, A. A.; et al., 90h:35053**
Drăghicescu, I. C. On the transformation of the first order quasilinear equations by a change of variables and function. **90g:35033**
Karabaliev, R. K. (*with* Tazhimuratov, I.) Application of the Poincaré method to a system of first-order partial differential equations. (Russian) **90b:35050**
Konstantinov, A. A. (*with* Maslov, V. P.; Chebotarëv, A. M.) Drift of boundary conditions for partial differential equations. **90h:35053**
Maslov, V. P. *see* **Konstantinov, A. A.; et al., 90h:35053**
Pierre-Loti-Viaud, Daniel Dynamique de population et équation d'Hamilton-Jacobi. (English summary) [Population dynamics and the Hamilton-Jacobi equation] **90c:35044**
Soner, H. Mete *see* **Cannarsa, P., 90d:35054**
Tazhimuratov, I. *see* **Karabaliev, R. K., 90b:35050**

Items with secondary classifications in 35F20

Bagrov, V. G. (*with* Obukhov, V. V.) Complexification of the method of complete separation of variables in the Hamilton-Jacobi equation. **90c:78001**
Barles, G. Regularity results for first order Hamilton-Jacobi equations. **90i:35051**
Calogero, F. (*with* De Lillo, S.) Cauchy problems on the semiline and on a finite interval for the Eckhaus equation. **90b:35201**
Capuzzo-Dolcetta, I. (*with* Lions, P.-L.) Hamilton-Jacobi equations with state constraints. **90g:49021**
Constantin, P. (*with* Foiaş, Ciprian; Gibbon, J. D.) Finite-dimensional attractor for the laser equations. **90h:35034**
Costa, Peter J. (*with* Westlake, Ruth Hampton) An example of computer enhanced analysis. (*see* **90d:00036**)
(Dacorogna, Bernard) *see* **Li, Cai Zhong, 90g:49010**
De Lillo, S. *see* **Calogero, F., 90b:35201**
Foiaş, Ciprian *see* **Constantin, P.; et al., 90h:35034**
Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. **90b:49043**
— Hamilton-Jacobi equations: viscosity solutions and generalized gradients. **90f:35018**
Gibbon, J. D. *see* **Constantin, P.; et al., 90h:35034**
Ivanov, Valentin Konstantinovich Maslov semirings and linearization of differential equations. (Russian) **90g:12009**
Kolokol'tsov, V. N. (*with* Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. **90i:49033**
Lenhart, S. M. Viscosity solutions associated with impulse control problems for piecewise-deterministic processes. **90b:49042**
Li, Cai Zhong (*with* Mu, Li Bin) Erratum: *Weak continuity and weak lower semicontinuity of nonlinear functionals* [Lecture Notes in Math., 922, Springer, Berlin, 1982; MR 84f:49020] by B. Dacorogna. (Chinese. English summary) **90g:49010**
Lions, P.-L. *see* **Capuzzo-Dolcetta, I., 90g:49021**
Maslov, V. P. *see* **Kolokol'tsov, V. N., 90i:49033**
Mu, Li Bin *see* **Li, Cai Zhong, 90g:49010**
Obukhov, V. V. *see* **Bagrov, V. G., 90c:78001**
Rozyev, I. (*with* Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. **90c:90259**
Sartabanov, Zh. A method for studying periodic solutions of partial differential equations of a special type. (Russian. Kazakh summary) **90f:35014**
Subbotin, A. I. *see* **Rozyev, I., 90c:90259**
Ueno, Kazushige On pseudoelliptic systems of first order differential equations. **90a:58204**
Westlake, Ruth Hampton *see* **Costa, Peter J., (90d:00036)**

35F25 Initial value problems for nonlinear equations and systems

Gil'derman, Yu. I. (*with* Sorokina, E. M.) A first-order piecewise-affine differential equation. **90b:35051**
Gudynas, Gintautas The Cauchy problem for the Hamilton-Jacobi equation with a discontinuous initial function. (Russian. English and Lithuanian summaries) **90b:35052**
Imanaliev, M. I. (*with* Ved', Yu. A.) A first-order partial differential equation with an integral coefficient. **90i:35066**
Li, Da Qian *see* **Tsuji, Mikio, 90k:35063**
Sorokina, E. M. *see* **Gil'derman, Yu. I., 90b:35051**
Tsuji, Mikio (*with* Li, Da Qian) Remarks on characteristics of partial differential equations of first order. **90k:35063**
Ved', Yu. A. *see* **Imanaliev, M. I., 90i:35066**

Items with secondary classifications in 35F25

Crandall, Michael G. (*with* Lions, P.-L.; Souganidis, P. E.) Maximal solutions and universal bounds for some partial differential equations of evolution. **90a:35125**
Lions, P.-L. *see* **Crandall, Michael G.; et al., 90a:35125**
Rudnicki, Ryszard Strong ergodic properties of a first-order partial differential equation. **90a:58097**
Souganidis, P. E. *see* **Crandall, Michael G.; et al., 90a:35125**

35F30 Boundary value problems for nonlinear equations and systems

Items with secondary classifications in 35F30

Barles, G. (*with* Perthame, B.) Comparison principle for Dirichlet-type Hamilton-Jacobi equations and singular perturbations of degenerated elliptic equations. **90m:35017**

Colton, David (*with* Monk, Peter) Projection theorems for far field patterns and the inverse scattering problem. **90i:65225**

Evans, L. C. (*with* James, M. R.) The Hamilton-Jacobi-Bellman equation for time-optimal control. **90j:49020**

James, M. R. *see* **Evans, L. C., 90j:49020**

Kamont, Zdzisław (*with* Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) **90c:35192**

Monk, Peter *see* **Colton, David, 90i:65225**

Perthame, B. *see* **Barles, G., 90m:35017**

Turo, Jan *see* **Kamont, Zdzisław, 90c:35192**

35F99 None of the above, but in this section

Lions, Jacques-Louis Sur les sentinelles des systèmes distribués. Le cas des conditions initiales incomplètes. (English summary) [On the sentinels of distributed systems. The case in which initial conditions are incomplete] **90b:35053**

Items with secondary classifications in 35F99

Cianci, Roberto Superspace first-order partial differential equations through the Cartan-Kähler integration theorem. **90e:58165**

Davidson, M. G. (*with* Stanke, R. J.) Gradient-type differential operators and unitary highest weight representations of $SU(p,q)$. **90e:22025**

Perthame, B. Perturbed dynamical systems with an attracting singularity and weak viscosity limits in Hamilton-Jacobi equations. **90e:35014**

Shugrin, S. M. A combinatorial boundary value problem, and difference equations. (Russian) **90m:65217**

Stanke, R. J. *see* **Davidson, M. G., 90e:22025**

35Gxx General higher-order equations and systems

35G05 Linear equations and systems, general

Mamontov, E. V. An equilibrium solution of a system of nonautonomous linear partial differential quations. (Russian) (*see* **90j:00013**)

Oganesyan, G. R. Weighted Cauchy and Dirichlet problems for some partial differential equations that are singular on the boundary. **90e:35039**

Items with secondary classifications in 35G05

Cao, Ce Wen Traces of differential operators. (Chinese. English summary) **90f:47065**

35G10 Initial value problems for linear equations and systems

Khalgui Ounaies, Hella Unicité du problème de Cauchy pour des opérateurs à caractéristiques non régulières. (English summary) [Uniqueness of the Cauchy problem for operators with nonregular characteristics] **90d:35055**

Radzhabov, È. L. The Cauchy problem for a higher-order equation with a generalized Bessel differential operator. (Russian. Tajiki summary) **90a:35049**

Items with secondary classifications in 35G10

Sadamatsu, Takashi On a necessary condition for the wellposedness of the Cauchy problem for evolution equations. **90i:35006**

35G15 Boundary value problems for linear equations and systems

Abdrakhmanov, A. M. The Dirichlet problem for a second-order multidimensional system with variable coefficients. (Russian) **90h:35054**

Baĭkuziev, K. B. Existence of a classical solution of a mixed problem for systems of degenerate equations. (Russian) **90b:35054**

Chen, Hua Boundary value problems for a class of linear partial differential equations with Fuchsian operator coefficients. (Chinese. English summary) **90b:35055**

Chen, Shui Li On the solutions to boundary value problems for some classes of (systems of) n-dimensional linear partial differential equations. (Chinese) **90h:35055**

Chuesheva, N. A. The first boundary value problem for a class of nonclassical equations in mathematical physics. (Russian) **90i:35067**

Demidenko, G. V. Correct solvability of boundary value problems in a half-space for quasi-elliptic equations. **90b:35056**

El-Hajj, Adnan Atef Fourth order boundary value problems. **90c:35045**

Malovichko, V. A. A nonlocal boundary value problem for a system of fourth-order differential equations. (Russian. English summary) **90a:35050**

Nazarov, S. A. Boundary value problems for single-characteristic equations. I. The characteristic is transversal to the boundary. (Russian. English and Lithuanian summaries) **90g:35034**

Tsybikov, B. N. A nonlocal problem for third-order equations. (Russian) **90h:35056**

Items with secondary classifications in 35G15

Chen, Shu Xing Necessary conditions on local solvability of boundary value problems for linear PDE. **90b:35002**

Kapanadze, D. V. A problem with an oblique derivative. (Russian) **90e:35052**

Kozhanov, A. I. Formulation and solvability of a boundary value problem for a class of equations that are not solved with respect to the time derivative. (Russian) **90f:35020**

Kreĭn, S. G. (*with* L′vin, S. Ya.) Underdetermined boundary value problems. (Russian) **90a:35171**

L′vin, S. Ya. *see* **Kreĭn, S. G., 90a:35171**

Perekhrest, V. I. Solution of the second boundary value problem for a second-order nonselfadjoint equation. (Russian) **90d:35045**

Skubachevskiĭ, A. L. Eigenvalues and eigenfunctions of some nonlocal boundary value problems. **90c:35155**

Walczak, Stanisław Absolutely continuous functions of several variables and their application to differential equations. (Russian summary) **90d:26026**

Zhou, Xin The Riemann-Hilbert problem and inverse scattering. **90i:34046**

35G20 Nonlinear equations and systems, general

Capel, H. W. *see* **van der Linden, Johannes; et al., 90k:35065**

Chan, W. L. (*with* Li, Kam-Shun) Nonpropagating solitons of the variable coefficient and nonisospectral Korteweg-de Vries equation. **90k:35064**

Chemin, Jean-Yves Régularité de la solution d'un problème de Cauchy fortement non linéaire à données singulières en un point. (English summary) [Regularity of the solution of a strongly nonlinear Cauchy problem with singular data at a point] **90i:35068**

Gvazava, D. K. A general integral of a class of nonlinear equations and its applications. (Russian) **90c:35046**

Li, Kam-Shun *see* **Chan, W. L., 90k:35064**

van der Linden, Johannes (*with* Capel, H. W.; Nijhoff, Frank) Linear integral equations and multicomponent nonlinear integrable systems. II. **90k:35065**

Madi, Nour Saïd (*with* Yoshino, Masafumi) Unique solvability of nonlinear Fuchsian equations. **90j:35062**

Metzen, Gerhard A semilinear problem with jumping nonlinearities in unbounded domains. **90g:35035**

Nijhoff, Frank *see* **van der Linden, Johannes; et al., 90k:35065**

Yoshino, Masafumi *see* **Madi, Nour Saïd, 90j:35062**

Zubov, V. I. Systems of differential equations with two singular points of regular type. **90i:35069**

Items with secondary classifications in 35G20

Breuer, Shlomo (*with* Roseman, Joseph J.) On spatial energy decay for quasilinear boundary value problems in cone-like and exterior domains. **90d:35026**

(Dacorogna, Bernard) *see* **Li, Cai Zhong, 90g:49010**

Ding, Sun Hong (*with* Mawhin, J.) The range of some monotone gradient perturbations of selfadjoint operators with finite-dimensional kernel having the unique continuation property. **90k:47126**

Kashcheev, V. N. An "algebraic" method for obtaining solutions of nonlinear equations. (Russian. English summary) **90c:35036**

Kutev, Nikolaĭ D. *see* **Popivanov, Pet″r R., 90i:35005**

Levendorskiĭ, S. Z. Asymptotic behavior of the discrete spectrum of the Dirac operator with decreasing potential. **90b:35179**

Li, Cai Zhong (*with* Mu, Li Bin) Erratum: *Weak continuity and weak lower semicontinuity of nonlinear functionals* [Lecture Notes in Math., 922, Springer, Berlin, 1982; MR 84f:49020] by B. Dacorogna. (Chinese. English summary) **90g:49010**

Mawhin, J. *see* **Ding, Sun Hong, 90k:47126**

Mu, Li Bin *see* **Li, Cai Zhong, 90g:49010**

Popivanov, Pet″r R. (*with* Kutev, Nikolaĭ D.) On the existence, uniqueness and smoothness of the solutions of some classes of nonlinear partial differential equations. **90i:35005**

Rabelo, Mauro Luiz A characterization of differential equations of type $u_{xt} = F(u, \partial u/\partial x, \cdots, \partial^k u/\partial x^k)$, which describe pseudospherical surface. **90i:58201**

Roseman, Joseph J. *see* **Breuer, Shlomo, 90d:35026**

35G25 Initial value problems for nonlinear equations and systems

Bubnov, B. A. Necessary and sufficient conditions for the solvability of the Cauchy problem for some classes of nonlinear evolution equations. **90d:35056**

Faminskiĭ, A. V. The Cauchy problem for quasilinear equations of odd order. (Russian) **90k:35066**

Popiołek, J. The Cauchy problem for a higher-order partial differential equation. (Russian) **90e:35040**

35G30 Boundary value problems for nonlinear equations and systems

Artyushin, A. N. An existence theorem for a third-order equation. (Russian) **90g:35036**

Cheng, Jin^2 Existence of solutions to initial-boundary value problems for a class of nonlinear third-order partial differential equations. (Chinese. English summary) **90h:35057**

Il′ina, S. M. Solution of a nonlinear boundary value problem. (Russian) **90d:35057**

Korman, Philip On existence of solutions for noncoercive problems. **90g:35037**

Laptev, G. I. Solvability of initial-boundary value problems for third-order quasilinear partial differential equations with one space variable. **90a:35051**

Smoller, J. A. (*with* Wasserman, Arthur G.) Asymmetric solutions of problems with symmetry. **90j:35063**

Sun, Jin Hai A uniqueness theorem for solutions of a class of quasilinear boundary value problems. (Chinese. English summary) **90a:35052**

Warnecke, Gerald The homogenous Dirichlet problem for nonelliptic partial differential equations with strong nonlinearities. **90i:35070**

Wasserman, Arthur G. *see* **Smoller, J. A., 90j:35063**

Items with secondary classifications in 35G30

Komkov, V. Properties of the sensitivity functions. I. Differentiable functions. **90e:73091**

35G99 None of the above, but in this section

Roşculeţ, M. N. Analyticity with respect to a differential operator E. II. Solutions of the iterative equation $E^{(n)}(\Phi) = 0$. (Romanian. French summary) **90k:35067**

Items with secondary classifications in 35G99

Akopyan, A. A. (*with* Saakyan, A. A.) A class of systems of partial differential equations. (Russian) **90j:35059**

Demenchuk, A. K. Periodic solutions of Pfaffian systems. (Russian. English summary) **90a:35010**

Nacinovich, M. Tangential Cauchy-Riemann systems. **90d:58143**

Pachpatte, B. G. On Wendroff like integral inequalities. **90a:26025**

Rasulov, A. B. Representation of the manifold of solutions, and a study of a Cauchy type problem for a general system of differential equations with a singular line. (Russian. Tajiki summary) **90d:35051**

Saakyan, A. A. *see* **Akopyan, A. A., 90j:35059**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Abdullah, Saleh (*with* Hussein, D.) Partially hypoelliptic pseudo-differential operators in spaces of generalized distributions. (Arabic summary) **90f:35042**

Aĭrapetyan, S. Zh. (*with* Markaryan, V. N.) Hypoellipticity of polynomials with complex coefficients. (Russian. Armenian summary) **90c:35047**

Akopyan, G. O. *see* **Markaryan, V. N., 90c:35050**

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Avellaneda, Marco (*with* Lin, Fang-Hua) Un théorème de Liouville pour des équations elliptiques à coefficients périodiques. (English summary) [A Liouville theorem for elliptic equations with periodic coefficients] **90j:35072**
Balint, V. Two partial differential equations that are connected with geometric problems. (Russian) **90g:35043**
Banţă, Valeriu On a theorem of Hörmander. **90b:35067**
Canavati, José A. (*with* Fetter, Helga) Decomposition of solenoidal vector fields. (Spanish) **90d:35065**
Cialdea, Alberto The equation $\Delta_2 u + a_{10}(x,y)\partial u/\partial x + a_{01}(x,y)\partial u/\partial y + a_{00}(x,y)u = F(x,y)$. Completeness theorems. (Italian. English summary) **90d:35066**
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Fefferman, R. A criterion for the absolute continuity of the harmonic measure associated with an elliptic operator. **90b:35068**
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Heersink, R. Eigenschaften von Bauer-Operatoren für elliptische Differentialgleichungen. [Properties of Bauer operators for elliptic differential equations] **90i:35081**
Khavinson, Dmitry Duality and uniform approximation by solutions of elliptic equations. **90i:35082**
Kurbanov, A. A. Behavior of solutions of elliptic equations with arbitrarily bounded coefficients. (Russian. English and Azerbaijani summaries) **90h:35072**
Landis, E. M. Positive harmonic functions. (Russian) **90e:35048**
Li, Lige *see* **Ramm, Alexander G., 90a:35067**
Lin, Fang-Hua *see* **Avellaneda, Marco, 90j:35072**
Meshkov, V. Z. Weighted differential inequalities and their application for estimates of the decrease at infinity of the solutions of second-order elliptic equations. (Russian) **90i:35083**
Ramm, Alexander G. (*with* Li, Lige) Estimates for Green's functions. **90a:35067**
Robbiano, Luc Dimension des zéros d'une solution faible d'un opérateur elliptique. [Dimension of the zeros of a weak solution of an elliptic operator] **90c:35059**
Smagulov, B. T. A stationary equation of free convection with dissipation. (Russian) (*see* **90m:00032**)
Sukretnyĭ, V. I. Convergence of energy integrals, generalized gradients and solutions in a problem of the averaging of second-order elliptic equations with nonuniformly oscillating coefficients. (Russian) **90b:35069**
Tchamitchian, Ph. About wavelets and elliptic operators. (*see* **90g:42062**)
Utepbergenov, M. A method for studying regular singularities of partial differential equations. **90h:35073**
Vagabov, A. I. Construction of the fundamental solution of an elliptic equation with a complex parameter. (Russian) **90f:35054**
Vespri, Vincenzo Analytic semigroups generated on a functional extrapolation space by variational elliptic equations. (Italian summary) **90f:35055**
Wu, Jiong Qi A strong extremum principle for L-superharmonic functions. (Chinese. English summary) **90k:35079**

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Amdebrhan, Tewodros *see* **Porru, Giovanni, 90k:35045**
Amrein, Werner (*with* Boutet de Monvel-Berthier, Anne; Georgescu, Vladimir) Asymptotic estimates for solutions of second order elliptic equations in unbounded domains. **90d:35034**
Arkhipova, A. A. (*with* Ural′tseva, N. N.) Regularity of the solution of a problem with a two-sided limit on a boundary for elliptic and parabolic equations. (Russian) **90h:35044**
Avellaneda, Marco (*with* Lin, Fang-Hua) Homogenization of Poisson's kernel and applications to boundary control. **90g:35016**
Bakry, Dominique The Riesz transforms associated with second order differential operators. **90c:58186**
Begehr, Heinrich (*with* Hile, G. N.) Schauder estimates and existence theory for entire solutions of linear elliptic equations. **90a:35004**
Ben-Artzi, Matania (*with* Dermenjian, Y.; Guillot, J. C.) Acoustic waves in perturbed stratified fluids: a spectral theory. **90i:35194**
Boutet de Monvel-Berthier, Anne *see* **Amrein, Werner; et al., 90d:35034**
Buchukuri, T. V. (*with* Gegelia, T. G.) Uniqueness of solutions of fundamental problems in elasticity theory for infinite domains. **90k:73019**
Cao, Dao Min The existence of nontrivial solutions to a generalized Choquard-Pekar equation. (Chinese) **90i:35231**
Çelebi, A. Okay *see* **Akın, Ömer, 90b:31002**
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Esposito, Vincenzo (*with* Miserendino, Doriano) The Poisson kernel of a Grushin operator in a half-space. (Italian. English summary) **90h:35179**
Fedorchenko, I. S. Difference approximation of a problem of optimal distributed control of an elliptic system. (Russian) **90d:65179**
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Gurarie, D. L^p and spectral theory for a class of global elliptic operators. **90d:35214**
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Il′in, V. A. (*with* Joó, István) An inequality of Hausdorff-Young type for eigenfunctions of the Laplace operator in a three-dimensional domain. (Russian) **90j:35150**
Joó, István *see* **Il′in, V. A., 90j:35150**
Khaïdarov, A. Schauder estimates in one of the inverse problems for elliptic equations. (Russian) **90c:35200**
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Kilpeläinen, Tero The inclusion of $O_{HB} \subset O_{HD}$ for *n*-harmonic functions. (Polish summary) **90d:31026**
Kozlov, Vladimir Arkad′evich (*with* Maz′ya, V. G.; Parton, V. Z.) Thermal shock in a region with a crack. **90c:73020**
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Liang, Xi Ting Improved estimates of the maximum modulus of generalized solutions to linear second-order elliptic and parabolic equations. (Chinese. English summary) **90k:35061**
Lin, Fang-Hua *see* **Avellaneda, Marco, 90g:35016**
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Mokin, Yu. I. Integral equations of the Dirichlet problem on a system of open curves. **90i:45018**
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Sumin, M. I. Optimal control of objects that can be described by quasilinear elliptic equations. **90h:49019**
Sweers, G. Estimates for elliptic singular perturbations in L_p-spaces. **90k:35020**
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Uchiyama, Kôhei A probabilistic proof and applications of Wiener's test for the heat operator. **90b:60099**
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Vespri, Vincenzo Analytic semigroups generated in $C^{-1,\alpha}$ by second order variational operators and application to nonlinear Cauchy problem. **90i:47042**
Zamboni, Pietro Some function spaces and elliptic partial differential equations. **90k:46080**
Zhakova, T. A. Control of the coefficients of an elliptic equation. (Russian) (*see* **90d:00012**)

35J20 Second-order equations, variational methods

Bottaro, Gianfranco (*with* Oppezzi, Pirro) Variational problems and convergence on unbounded domains. (Italian. English summary) **90d:35067**
Kolpakov, A. G. Asymptotics of the first boundary value problem for elliptic equations in a domain with a thin covering. **90e:35049**
Oppezzi, Pirro *see* **Bottaro, Gianfranco, 90d:35067**
Saadabaev, A. Regularized variational methods for solving boundary value problems for partial differential equations. (Russian) **90c:35060**

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Burton, G. R. Variational problems on classes of rearrangements and multiple configurations for steady vortices. (French summary) **90h:58017**
Cao, Dao Min (*with* Zhu, Xi Ping) On the existence and nodal character of solutions of semilinear elliptic equations. **90d:35088**
Defranceschi, Anneliese *G*-convergence of cyclically monotone operators. **90e:49012**
Di Piazza, L. (*with* Maniscalco, C.) An existence result for a nonlinear elliptic problem with critical growth in strip-like domains. (Italian summary) **90f:35070**
Esteban, Maria J. (*with* Lions, P.-L.) Γ-convergence and the concentration-compactness method for some variational problems with lack of compactness. (French summary) **90a:49016**
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Rabier, P. J. New existence results for some nonconvex optimization problems. **90f:49002**
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35J25 Second-order equations, boundary value problems

Abdrakhmanov, A. M. The Dirichlet problem for a multidimensional elliptic system with variable coefficients. (Russian) **90f:35056**
Aliev, M. D. Solvability of the Zaremba problem for an elliptic second-order equation. (Russian. English and Azerbaijani summaries) **90k:35080**
Alimov, Sh. A. (*with* Pulatov, A. K.) A nonlocal Bitsadze-Samarskiĭ problem. (Russian) **90b:35070**
Allegretto, W. (*with* Mingarelli, A. B.) Boundary problems of the second order with an indefinite weight-function. **90i:35084**
Antontsev, S. N. (*with* Díaz Díaz, Jesús Ildefonso) New results on the localization of solutions of nonlinear elliptic and parabolic equations that are obtained by the energy method. **90d:35068**
Asatryan, V. V. Basic boundary value problems for second-order elliptic equations with variable coefficients in a half-space. **90a:35068**
Askarov, A. A. A problem with an oblique derivative for a second-order equation of elliptic type on a plane. (Russian) (*see* **90h:00003**)
Banasiak, Jacek (*with* Roach, G. F.) On mixed boundary value problems of Dirichlet oblique-derivative type in plane domains with piecewise differentiable boundary. **90g:35044**
Bardi, Martino An asymptotic formula for the Green's function of an elliptic operator. **90e:35050**
Bass, Richard F. The Dirichlet problem for radially homogeneous elliptic operators. **90k:35081**
Biroli, Marco Wiener estimates for solutions of elliptic equations in nondivergence form. **90d:35069**
Chen, Qing Xiang Some problems concerning a class of systems of second-order elliptic partial differential equations. (Chinese) **90k:35082**
Cheng, Jin[2] A function-theoretic method for the Neumann problem for a class of second-order linear elliptic equations in $\mathbf{R}^3$. (Chinese) **90f:35057**
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Darbinyan, L. S. Solution of the third boundary value problem for second-order elliptic equations with complex coefficients outside the disk. (Russian. Armenian summary) **90a:35069**
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Đoàn Văn Ngọc (*with* Nguyễn Mạnh Hùng) On the smoothness of the solution of a mixed problem for second-order elliptic equations in domains with corner points. (Vietnamese. Russian summary) **90j:35073**
Ferone, Vincenzo Symmetrization in a Neumann problem. **90f:35058**
Feyel, Denis (*with* de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - u\mu = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - u\mu = 0$, where μ is a positive measure] **90j:35074**
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Grisvard, P. Singularities in elliptic boundary value problems. **90m:35053**
Gröger, Konrad (*with* Rehberg, Joachim) Resolvent estimates in $W^{-1,p}$ for second order elliptic differential operators in case of mixed boundary conditions. **90h:35074**
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Lu, Li Jiang Uniqueness of solutions to Neumann problems for second-order elliptic equations with discontinuous boundary values. (Chinese. English summary) **90a:35071**
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Alessandrini, Giovanni Remark on a paper by H. Bellout and A. Friedman: "Identification problems in potential theory" [Arch. Rational Mech. Anal. **101** (1988), no. 2, 143–160; MR 89c:31003]. (Italian summary) **90g:31005**

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Brillard, Alain Asymptotic analysis of two elliptic equations with oscillating terms. (French summary) **90c:35018**

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Bubnov, B. A. Existence and uniqueness of the solution of inverse problems for parabolic and elliptic equations. (Russian) **90f:35198**

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Cantrell, Robert Stephen (*with* Cosner, Chris) On eigenfunctions with sign definite components in weakly coupled linear elliptic systems. **90j:35149**

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Destuynder, Philippe Remarks on dynamic substructuring. **90j:73026**

Doppel, Karl (*with* Schomburg, Bernd) A Robin-Neumann problem in bounded domains with splitting boundary. **90c:35052**

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Hsiao, George C. (*with* Wendland, W. L.) On the low frequency asymptotics of the exterior 2-D Dirichlet problem in dynamic elasticity. **90k:73029**

Hsu, Pei Asymptotic behavior of solutions of oblique derivative boundary value problems. **90j:35036**

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Kalis, Harijs Edmunds A linear boundary value problem in hydrodynamics with a discontinuous solution that arises in the process of electrolysis. (Russian) **90e:76135**

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Kerimov, A. K. On the dependence of solutions of boundary value problems on the perturbation of a domain with respect to vector fields. **90a:35235**

Kerimov, T. M. (*with* Maz′ya, V. G.; Novruzov, A. A.) A criterion for the regularity of the infinitely distant point for the Zaremba problem in a half-cylinder. (Russian. English and German summaries) **90b:35031**

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Kibirev, V. V. A problem with a directional derivative for harmonic functions. (Russian) (*see* **90a:00007**)

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Kozlov, Vladimir Arkad′evich A theorem on a strong zero for an elliptic boundary value problem in a corner. (Russian) **90j:35013**

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Melikulov, A. S. Existence of a solution of an elliptic boundary value problem with a free boundary. (Russian) **90f:35212**

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von Petersdorff, T. Boundary integral equations for mixed Dirichlet, Neumann and transmission problems. **90c:35055**

Philippin, G. A. Some extensions of Dirichlet's and Thomson's principles for harmonic vectors. **90j:31002**

Pilant, Michael (*with* Rundell, William) A uniqueness theorem for determining conductivity from overspecified boundary data. **90a:35226**

(Polubarinova-Kochina, P. Ya.) *see* **Radkevich, E. V., 90f:35213**

Radkevich, E. V. (*with* Melikulov, A. S.) ★ Краевые задачи со свободной границей. (Russian) [Boundary value problems with a free boundary] **90f:35213**

Ramm, Alexander G. Multidimensional inverse problems: uniqueness theorems. **90d:35294**

Rokva, Zh. P. Solution of a problem in plane elasticity theory for a polygon under given displacements on the boundary. (Russian) **90f:73017**

Rother, Wolfgang[1] New estimates for the first eigenvalue of Lamé's operator. **90d:35222**

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Rybalov, Yu. V. The Neumann problem for a degenerate elliptic equation in divergence form. **90c:35096**

Salsa, Sandro Boundary behavior for solutions of elliptic and parabolic equations. (Italian. English summary) **90m:35027**

Schomburg, Bernd *see* **Doppel, Karl, 90c:35052**

Semenov, Yu. A. *see* **Kovalenko, V. F., 90a:47098**

Shakhbagyan, R. R. *see* **Ararktsyan, B. G., 90d:35219**

Shimomura, Katsunori The growth of the positive solutions of $Lu = 0$ near the boundary of an inner NTA domain. **90b:35017**

Suzikov, G. V. An eigenvalue control problem. (Russian) **90h:93055**

Sylvester, John (*with* Uhlmann, Gunther) Inverse boundary value problems. **90f:35204**

Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**

Tautenhahn, U. *see* **Friedrich, V., 90h:35234**

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Troianiello, Giovanni M. A class of weighted function spaces, and intermediate Caccioppoli-Schauder estimates. **90d:46052**

Uhlmann, Gunther *see* **Sylvester, John, 90f:35204**

Vabishchevich, P. N. Iterative reduction of a mixed boundary value problem to the Dirichlet problem. **90j:35006**

Vagabov, A. I. Fourier series expansions in principal functions of an elliptic operator. (Russian) **90a:35177**

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Wendland, W. L. *see* **Hsiao, George C., 90k:73029**

Wu, Jian Cheng An inverse problem for an elliptic equation. (Chinese. English summary) **90e:35169**
Zakirov, S. Kh. Existence of a solution of a nonlocal boundary value problem for a degenerate elliptic equation with a quadratic form that changes sign. (Russian) **90g:35063**

35J30 Higher-order equations, general

Benkirane, Najib Propriétés d'indice en théorie höldérienne pour des opérateurs elliptiques dans $\mathbf{R}^n$. (English summary) [Fredholm properties in Hölder theory for elliptic operators in $\mathbf{R}^n$] **90g:35045**
Ko, Su Ha Existence of the solution of an elliptic differential equation of $2n$th order on the whole plane. (Korean. English summary) (Not in MR)
Kresin, G. I. (*with* Maz'ya, V. G.) A sharp constant in a Miranda-Agmon-type inequality for solutions of elliptic equations. **90b:35072**
Maz'ya, V. G. *see* **Kresin, G. I., 90b:35072**
Meshkov, V. Z. A weighted inequality of Hardy type for elliptic operators and its applications. **90a:35076**
— Restrictions on the rate of decrease of solutions of elliptic equations in unbounded domains. **90b:35073**
Müller-Pfeiffer, Erich Über die Existenz von Knotengebieten bei elliptischen Differentialoperatoren. [On the existence of nodal areas for elliptic differential operators] (Not in MR)
Nikolenko, P. V. On the structure of the pre-image of zero of a nonnegative solution of a homogeneous equation with a biharmonic principal part. (Russian) **90g:35046**
Pielichowski, Wacław Asymptotic behaviour of iterated Green's functions of a linear elliptic differential operator. **90c:35064**
— An inverse spectral problem for linear elliptic differential operators. **90c:35065**
Sobolevskiĭ, P. E. Embedding theorems for elliptic and parabolic operators in C. **90d:35076**
Szmydt, Zofia (*with* Ziemian, Bogdan) Local existence and regularity of solutions of singular elliptic operators on manifolds with corner singularities. **90m:35057**
White, Luther Estimation of higher-order damping terms in linear plate models. **90f:35060**
Ziemian, Bogdan *see* **Szmydt, Zofia, 90m:35057**

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Ashyralyev, A. O. (*with* Sobolevskiĭ, P. E.) Coercive stability of a multidimensional difference elliptic equation of $2m$th order with variable coefficients. (Russian) (*see* **90d:00022**)
Bagirov, L. A. (*with* Kondrat'ev, V. A.) Regularity of solutions of higher-order elliptic equations with continuous coefficients. **90i:35050**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) On the behavior of the solutions of higher-order elliptic equations at infinity. (Russian) **90b:35037**
Filatov, P. S. Orthogonality conditions and the behavior at infinity of solutions of a class of quasi-elliptic equations. **90b:35029**
Fulling, S. A. (*with* Kennedy, Gerard) The resolvent parametrix of the general elliptic linear differential operator: a closed form for the intrinsic symbol. **90b:58260**
Gaveau, Bernard (*with* Sainty, Philippe) A path integral formula for certain fourth-order elliptic operators. **90g:58145**
Headley, V. B. Some examples in elliptic oscillation theory. (*see* **90j:00016**)
Kadyrov, R. R. *see* **Dzhuraev, T. D., 90b:35037**
Kennedy, Gerard *see* **Fulling, S. A., 90b:58260**
Kondrat'ev, V. A. *see* **Bagirov, L. A., 90i:35050**
Kydyraliev, S. K. Embedding theorems in weighted Sobolev spaces. (Russian) **90c:46045**
Naito, Manabu (*with* Yoshida, Norio) Oscillation criteria for a class of higher order elliptic equations. **90j:35016**
Rempel, S. (*with* Schulze, B.-W.) Branching of asymptotics for elliptic operators on manifolds with edges. (*see* **90m:35003**)
Sainty, Philippe *see* **Gaveau, Bernard, 90g:58145**
Sapronov, Yu. I. Two-mode bifurcation of solutions of the von Kármán equation. (Russian) **90f:35024**
Schulze, B.-W. *see* **Rempel, S.**, (**90m:35003**)
Shidfar, Afima Abdullah On the representation of x, y, z and r^2-forms of a biharmonic function in terms of two harmonic functions and its applications to the Papkovich representation. **90d:31019**
Sobolevskiĭ, P. E. Elliptic and parabolic operators in the space C. **90j:47065**
— Imbedding theorems for elliptic and parabolic operators in the space C. **90j:47066**
— *see also* **Ashyralyev, A. O.**, (**90d:00022**)
Tovmasyan, N. E. Analytic continuation of solutions of higher-order homogeneous nonregularly elliptic equations in the plane. **90j:35041**
Yoshida, Norio *see* **Naito, Manabu, 90j:35016**

35J35 Higher-order equations, variational methods

Xu, Ke Ming *see* **Yang, Guang Wu, 90a:35077**
Yang, Guang Wu (*with* Xu, Ke Ming) Discontinuous Riemann boundary value problems for complex first-order nonlinear elliptic equations. (Chinese. English summary) **90a:35077**

Items with secondary classifications in 35J35

Boccardo, Lucio (*with* Drábek, Pavel; Kučera, Milan) Landesman-Lazer conditions for strongly nonlinear boundary value problems. **90k:35101**
Drábek, Pavel *see* **Boccardo, Lucio; et al., 90k:35101**
Kondrat'ev, V. A. *see* **Kozlov, Vladimir Arkad'evich; et al., 90i:35021**
Kozlov, Vladimir Arkad'evich (*with* Kondrat'ev, V. A.; Maz'ya, V. G.) On sign variability and the absence of "strong" zeros of solutions of elliptic equations. **90i:35021**
Kučera, Milan *see* **Boccardo, Lucio; et al., 90k:35101**
Maz'ya, V. G. *see* **Kozlov, Vladimir Arkad'evich; et al., 90i:35021**
Rother, Wolfgang[1] New bounds for the first eigenvalue of an elliptic equation occurring in the buckling problem for the plate. **90j:35155**

35J40 Higher-order equations, boundary value problems

Akhmedov, Z. A. Uniqueness of the solution of an interior problem for the biharmonic equation. (Russian) **90b:35074**
Ashino, Ryuichi The reducibility of the boundary conditions in the one-parameter family of elliptic linear boundary value problems. I. **90d:35077**
Bagirov, L. A. Elliptic boundary value problems for equations of Chaplygin type. (Russian) **90i:35086**
Berezovskaya, G. M. (*with* Kovalīv, O. Ya.; Lopushans'ka, G. P.) An exterior generalized Dirichlet problem for the equation $(\Delta^2 - K^4)u = 0$. (Ukrainian. Russian summary) (Not in MR)
Biroli, Marco (*with* Vitali, Enrico) Wiener points and energy decay for relaxed Dirichlet problems for the bi-Laplacian. (*see* **90j:00016**)
Chen, Shi Ming Existence and uniqueness of distribution solutions to the Dirichlet problem for higher-order elliptic equations. (Chinese. English summary) (Not in MR)
Dzhaiani, G. V. The first boundary value problem in the theory of prismatic shells with cusps in the zero approximation of the I. N. Vekua variant. (Russian. English and Georgian summaries) **90d:35078**
Eskin, Gregory Index formulas for elliptic boundary value problems in plane domains with corners. **90a:35078**
Go, Su Ha Existence of solution of first boundary value problem for a $2n$th order elliptic differential equation. (Korean. English summary) **90c:35066**
Karpeshina, Yu. E. Perturbation theory for a polyharmonic operator with a nonsmooth periodic potential. (Russian. English summary) **90c:35067**
Kondrat'ev, V. A. (*with* Oleĭnik, O. A.) Estimates near the boundary for second-order derivatives of solutions of the Dirichlet problem for the biharmonic equation. (Italian summary) **90d:35079**
Kovalīv, O. Ya. *see* **Berezovskaya, G. M.; et al.**, (Not in MR)
Krasnov, V. A. A theorem for an unbounded domain. (Russian) (*see* **90d:00020**)
Lavrenyuk, S. P. Nonlocal problems for elliptic equations with a parameter and for parabolic equations. (Ukrainian. Russian summary) (Not in MR)
Lesky, P., Jr. Zur Charakterisierung von Lösungen polyharmonischer Gleichungen im Ganzraum. [On the characterization of solutions of polyharmonic equations in the entire space] **90f:35061**
Levashkin, S. P. Asymptotic properties and classes of uniqueness for solving the Dirichlet problem for a fourth-order elliptic equation. (Russian) (*see* **90a:00007**)
Lopushans'ka, G. P. *see* **Berezovskaya, G. M.; et al.**, (Not in MR)
Maz'ya, V. G. (*with* Rossmann, Jürgen) Über die Asymptotik der Lösungen elliptischer Randwertaufgaben in der Umgebung von Kanten. [On the asymptotics of solutions of elliptic boundary value problems in the neighborhood of edges] **90a:35079**
Mikhaĭlova, T. V. Smoothness of generalized solutions of the Dirichlet problem for a polyharmonic equation in plane domains with a nonsmooth boundary. **90d:35080**
Mukhlisov, F. G. Potentials for some fourth-order B-elliptic equations. (Russian) (*see* **90i:00001**)
Oleĭnik, O. A. *see* **Kondrat'ev, V. A., 90d:35079**
Rossmann, Jürgen *see* **Maz'ya, V. G., 90a:35079**
Slobodin, V. I. Homogeneous boundary value problems for elliptic operators with boundary conditions on smooth manifolds of arbitrary dimension. **90c:35068**
— Homogeneous boundary value problems for a polyharmonic operator with boundary conditions on thin sets. **90i:35087**
Venturi, Adriana On a fourth-order elliptic operator with coefficients discontinuous at a point. (Italian) **90f:35062**
Vitali, Enrico *see* **Biroli, Marco**, (**90j:00016**)

Items with secondary classifications in 35J40

Atakhodzhaev, M. A. Nonuniqueness of the solution of an ill-posed problem for the biharmonic equation. **90m:31014**
Boĭmatov, K. Kh. An estimate for the eigenvalues of the Dirichlet problem for a class of degenerate differential operators. (Russian) (*see* **90m:00040**)
— Eigenvalues of elliptic differential operators in limit-cylindrical domains. **90h:35183**
Chen, Zu Chi (*with* Qian, Chun Lin) Estimates for the discrete spectrum of a quadratic form in the Laplacian operator. (Chinese. English summary) **90k:35189**
— Estimation of eigenvalue bounds of the polyharmonic operators Δ^{2m} with even orders. (Chinese) **90m:35142**
Cohen, Jonathan BMO estimates for biharmonic multiple layer potentials. **90d:31018**
Demidenko, G. V. Correct solvability of boundary value problems in a half-space for quasi-elliptic equations. **90b:35056**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) Estimates for nth-order derivatives of solutions of elliptic and parabolic equations at infinity. (Russian) **90h:35045**
Faierman, M. Elliptic problems involving an indefinite weight. **90k:35192**
Golovatyĭ, Yu. D. Natural frequencies of a fastened plate with additional mass. **90b:35027**
Goyal, Sulbha (*with* Goyal, Vinod B.) Liouville-type and uniqueness results for a class of sixth-order elliptic equations. **90h:35018**
Goyal, Vinod B. *see* **Goyal, Sulbha, 90h:35018**
Kadyrov, R. R. Behavior of the solutions of higher-order elliptic equations in the neighborhood of nonregular boundary points. (Russian) **90d:35043**
— *see also* **Dzhuraev, T. D., 90h:35045**
Kordyukov, Yu. A. L^p-theory of elliptic differential operators with bounded coefficients. **90i:58191**
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, V. G.) Spectral properties of operator pencils generated by elliptic boundary value problems in a cone. **90a:47125**
— (*with* Maz'ya, V. G.) Estimates of the L_p-means and asymptotic behavior of the solutions of elliptic boundary value problems in a cone. II. Operators with variable coefficients. (Russian) **90a:47124**
— On the spectrum of an operator pencil generated by the Dirichlet problem for an elliptic equation at a corner point. (Russian) **90f:35153**
Kryakvin, V. D. A general boundary value problem for a domain with noncompact boundary in weighted Hölder spaces. (Russian) **90j:35205**
Lavrenyuk, S. P. Lyapunov stability of a mixed problem for a fourth-order equation. (Ukrainian. Russian summary) (Not in MR)

Makhortov, S. D. Solvability of some degenerate boundary value problems for elliptic equations. (Russian) (*see* **90a:00007**)
Martinenko, Marīya D. (*with* Martynenko, Mikhaĭlo D.) A boundary value problem for a nonstandard elliptic equation. (Ukrainian. Russian summary) (Not in MR)
Martynenko, Mikhaĭlo D. *see* **Martinenko, Marīya D.**, (Not in MR)
Maz′ya, V. G. *see* **Kozlov, Vladimir Arkad′evich, 90a:47124** *and* **90a:47125**
Mikhaĭlets, V. A. A sharp estimate for the remainder in the spectral asymptotics of general elliptic boundary value problems. **90i:35201**
Najman, B. Singular perturbations of elliptic boundary value problems in L. (Serbo-Croatian summary) **90i:35033**
Novikov, V. V. On a qualitative property of the solutions of the biharmonic equation in the plane. (Russian) **90c:31004**
Payne, L. E. (*with* Schaefer, Philip W.) Duality theorems in some overdetermined boundary value problems. **90k:35187**
Postawa, Stanisława On the inverse problem of the Sturm-Liouville type for some class of the partial differential equations of the fourth order. **90b:35180**
Qian, Chun Lin *see* **Chen, Zu Chi, 90k:35189**
Rempel, S. Regularity of solutions to degenerate operators. **90j:35096**
Schaefer, Philip W. *see* **Payne, L. E., 90k:35187**
Sofronov, I. L. A numerical iterative method for solving regular elliptic problems. (Russian) **90i:65222**
Vespri, Vincenzo Analytic semigroups generated in $H^{-m,p}$ by elliptic variational operators and applications to linear Cauchy problems. **90j:47049**

35J45 Systems, general

Busurulov, A. A. Construction of the Green functions for multidimensional boundary value problems. (Russian) **90h:35081**
Deng, Zhi Bing On the well-posedness of the first class of elliptic systems. (Chinese. English summary) **90c:35069**
Ermakov, V. G. Homotopy classification of a set of multidimensional boundary value problems of oblique derivative type. **90e:35057**
Korkuna, M. D. *see* **Kostenko, V. G.**, (Not in MR) *and* (Not in MR)
Kostenko, V. G. (*with* Korkuna, M. D.) Reduction of a boundary value problem to a system of regular integral equations. (Ukrainian. Russian summary) (Not in MR)
— (*with* Korkuna, M. D.) A fundamental matrix of solutions of a linear elliptic system of partial differential equations. (Ukrainian. Russian summary) (Not in MR)
Madunts, È. M. Representation of a general solution of an elliptic system of differential equations. **90f:35063**
Mikhaĭlov, L. G. A quasilinear generalized Cauchy-Riemann system with three independent complex variables. (Russian. Tajiki summary) **90c:35070**
— The quasilinear generalized Cauchy-Riemann system with several independent variables. **90i:35088**
Renelt, Heinrich ★ Elliptic systems and quasiconformal mappings. **90k:35086**
Samsoniya, Z. V. Unique solutions of some elliptic systems, and quasiconformal mappings. (Russian) **90c:35071**
Soldatov, A. P. Higher-order elliptic systems. **90d:35081**
Tarkhanov, N. N. Laurent expansion and uniform approximation by the solutions of elliptic systems. **90k:35087**
— A Laurent expansion and local properties for solving elliptic systems. **90d:35082**
— Removable singularities of Hölder solutions of elliptic systems. (Russian) **90g:35047**
Yanushauskas, A. I. Elliptic systems of partial differential equations with four independent variables. (Russian. English and Lithuanian summaries) **90b:35075**

Items with secondary classifications in 35J45

Burda, Pavel The asymptotic distribution of eigenvalues of operators related to elliptic systems. I. Nonselfadjoint elliptic systems. (Russian and Czech summaries) **90b:35174a**
— The asymptotic distribution of eigenvalues of operators related to elliptic systems. II. Nonselfadjoint perturbations of systems with discontinuous coefficients. (Russian and Czech summaries) **90b:35174b**
Dadiomov, V. M. Singular cases of a differential conjugation problem for generalized analytic functions. (Russian. Kazakh summary) **90i:30076**
Good, I. J. A simple generalization of analytic function theory. **90a:30136**
Makatsariya, G. T. On Liouville-type theorems for a class of singular elliptic first-order systems with two independent variables. (Russian. English and Georgian summaries) **90g:35009**
Popov, G. S. Asymptotics of some spectral characteristics of elliptic systems of differential operators. (Russian summary) **90i:35203**
Radzhabov, N. R. Explicit representations of solutions of systems of second-order differential equations of elliptic type with a singular line. (Russian. Tajiki summary) **90c:35039**
— A new method of representing solutions of systems of second-order differential equations of elliptic type. (Russian. Tajiki summary) **90c:35040**
Tuĭgunov, K. Necessary conditions for optimality for elliptic systems. (Russian) **90g:49016**
Zhang, Ke Wei^1 A weak-strong convergence theorem and its applications. **90k:49015**

35J50 Systems, variational methods

Lavrent′ev, M. A. ★ Variational methods for boundary value problems for systems of elliptic equations. **90k:35088**
(Radok, J. R. M.) *see* **Lavrent′ev, M. A., 90k:35088**

Items with secondary classifications in 35J50

John, Oldřich (*with* Malý, Jan; Stará, Jana) Nowhere continuous solutions to elliptic systems. **90h:35050**
Malý, Jan *see* **John, Oldřich; et al., 90h:35050**
Manfredi, Juan J. Regularity for minima of functionals with p-growth. **90e:49015**
Stará, Jana *see* **John, Oldřich; et al., 90h:35050**

35J55 Systems, boundary value problems

Abduragimov, M. A. A nonlinear elliptic system of Beltrami type. (Russian) **90d:35083**
Adiriskalieva, Zh. N. (*with* Bliev, N. K.) On the solvability of the Carleman-Vekua equation in unbounded domains. (Russian. Kazakh summary) **90d:35084**
Amirkhanova, S. G. (*with* Zhurbenko, L. N.) A boundary value problem with a parameter x for an elliptic first-order system. (Russian) **90a:35080**
Askarov, A. A. *see* **Bliev, N. K.**, (**90k:00021**)
Babaev, S. A. A modified first boundary value problem for a class of strongly coupled elliptic systems. (Russian. Tajiki summary) **90i:35089**
Bliev, N. K. (*with* Askarov, A. A.) Generalized analytic vectors and boundary value problems for elliptic equations in Nikol′skiĭ-Besov spaces. (Russian) (*see* **90k:00021**)
— *see also* **Adiriskalieva, Zh. N., 90d:35084**
Bochenek, Jan On some linear eigenvalue problems for strongly elliptic systems with an indefinite weight matrix function. **90k:35089**
Cheng, Jin^2 *see* **Li, Ming Zhong, 90e:35058**
Cohen, Jonathan Cauchy formulae for functions analytic of order two on C^1 domains with applications to elastostatics and hydrostatics. **90b:35076**
Cosner, Chris (*with* Schaefer, Philip W.) Sign-definite solutions in some linear elliptic systems. **90i:35090**
Dadiomov, V. M. Singular cases of a generalized problem of linear conjugation. (Russian. Kazakh summary) **90c:35072**
Fang, Ai Nong On conditions of the ellipticity and elasticity for the complex equations of second order. (Chinese summary) **90a:35081**
Guo, Yu Zhu Nonlinear composite boundary value problems for systems of quasilinear first-order elliptic partial differential equations. (Chinese) **90d:35085**
Hlaváček, Ivan Inequalities of Korn's type, uniform with respect to a class of domains. (Russian and Czech summaries) **90k:35090a**
— Korn's inequality uniform with respect to a class of axisymmetric bodies. (Russian and Czech summaries) **90k:35090b**
Kondrat′ev, V. A. (*with* Oleĭnik, O. A.) Korn's inequalities and the uniqueness of solutions of classical boundary value problems in unbounded domains for a system in elasticity theory. (Russian) **90h:35082**
Koshchiĭ, V. F. (*with* Ropavka, A. I.) Dual methods for solving boundary value problems for systems of elliptic equations. **90f:35064**
Kozhevnikov, A. N. Second and third boundary value problems in static elasticity theory. **90i:35091**
Li, Ming Zhong (*with* Cheng, Jin^2) Riemann-Hilbert problems for overdetermined elliptic systems with several unknown functions of several complex variables. (Chinese) **90e:35058**
Makhmudov, O. I. A problem of analytic continuation for an elliptic system in the plane. (Russian) **90d:35086**
Murtazaev, D. On the generalized Cauchy-Riemann system with constant coefficients. (Russian. Tajiki summary) **90j:35077**
Nurubloev, M. A strongly connected second-order elliptic system. (Russian. Tajiki summary) **90d:35087**
Oleĭnik, O. A. *see* **Kondrat′ev, V. A., 90h:35082**
Oshorov, B. B. Some elliptic systems of differential equations. (Russian) (*see* **90a:00007**)
Radzhabov, N. R. (*with* Rasulov, A. B.) Integral representations and boundary value problems for a class of systems of differential equations of elliptic type with singular manifolds. (Russian) **90j:35078**
Rasulov, A. B. *see* **Radzhabov, N. R., 90j:35078**
Rempel, S. (*with* Schulze, B.-W.) ★ Asymptotics for elliptic mixed boundary problems. **90h:35083**
Ropavka, A. I. *see* **Koshchiĭ, V. F., 90f:35064**
Saak, È. M. The quasilinear jump problem. (Russian) **90b:35077**
Schaefer, Philip W. *see* **Cosner, Chris, 90i:35090**
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Schumann, Rainer A remark on a boundary contact problem in linear elasticity. **90j:35079**
Tovmasyan, N. E. Well-posed boundary value problems for the Carleman-Vekua equation in a half-plane. (Russian) **90e:35059**
Verkhovod, D. B. Two boundary value problems for systems of first-order linear elliptic equations in a multiply connected domain. (Russian) **90b:35078**
Zajączkowski, Wojciech M. Existence and regularity of solutions of some elliptic system in domains with edges. **90b:35079**
Zhura, N. A. Boundary value problems for elliptic systems in domains with a piecewise-smooth boundary. **90f:35065**
Zhurbenko, L. N. *see* **Amirkhanova, S. G., 90a:35080**

Items with secondary classifications in 35J55

Akhalaya, G. Ya. (*with* Mandzhavidze, G. F.) Boundary value problems in the theory of generalized analytic vectors for domains with corner points. (Russian) **90e:30042**
Avellaneda, Marco (*with* Lin, Fang-Hua) Compactness methods in the theory of homogenization. II. Equations in nondivergence form. **90c:35035**
Chang, Chol Su A potential and oblique derivative boundary value problem. (Korean. English summary) **90a:35191**
Constanda, Christian *see* **Schiavone, Peter, 90g:73080**
Govorov, V. M. (*with* Safiev, È. K.) Membership in class W_2^1 of the classical solution of the Dirichlet problem for second-order elliptic systems. (Russian) **90j:35042**
Gukasyan, G. M. *see* **Sarkisyan, V. S., 90c:73023**
Huang, Si Xun Expressions for generalized solutions to higher-order hypercomplex systems of equations and generalized Riemann-Hilbert problems. (Chinese) **90g:30045**
Iwashita, Hirokazu (*with* Shibata, Yoshihiro) On the analyticity of spectral functions for some exterior boundary value problems. (Serbo-Croatian summary) **90k:35191**
Jost, Gabriele Integral equations with modified fundamental solution in time-harmonic electromagnetic scattering. **90d:35268**
Lin, Fang-Hua *see* **Avellaneda, Marco, 90c:35035**
Lü, De A note on the generalized Carleman boundary value problem for the system with constant coefficients of the class E_2. **90m:30065**
Mandzhavidze, G. F. *see* **Akhalaya, G. Ya., 90e:30042**

Matin, M. A. A study of spectral properties of elliptic boundary value problems. **90j:35156**

Mukhsinov, A. (*with* Muminov, A.) The Dirichlet problem for a singular differential equation of elliptic type. (Russian. Tajiki summary) **90h:35104**

Muminov, A. *see* **Mukhsinov, A., 90h:35104**

Panyushkin, V. N. Coercive solvability of general boundary value problems for degenerate second-order elliptic systems. (Russian) (*see* **90a:00007**)

Radzhabova, L. Representation of solutions of degenerate elliptic systems of equations by generalized power series. (Russian. Tajiki summary) **90c:35037**

Ralević, N. V. Boundary value problems for (p, q)-analytic functions. **90e:30044**

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— (*with* Gonçalves, J. V. A.) On the existence of positive solutions for a class of nonselfadjoint elliptic boundary value problems. **90i:35019**
Dal Maso, Gianni (*with* Defranceschi, Anneliese) Limits of nonlinear Dirichlet problems in varying domains. (Italian. English summary) **90e:49010**
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Horgan, C. O. (*with* Payne, L. E.) On the asymptotic behavior of solutions of inhomogeneous second-order quasilinear partial differential equations. **90m:35033**
— (*with* Payne, L. E.) Decay estimates for a class of nonlinear boundary value problems in two dimensions. **90h:35036**
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Jones, Christopher K. R. T. Radial solutions of a semilinear elliptic equation at a critical exponent. **90j:35012**
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— On existence of solutions for two classes of nonlinear problems. **90d:35020**
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— On non-radially symmetric bifurcation in the annulus. **90m:35028**
— Symmetry breaking for $\Delta u+2\delta e^{-u}=0$ on a disk with general boundary conditions. **90i:35053**
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Magomedov, A. A. The existence of generalized solutions of the Dirichlet problem for the Monge-Ampère equation in a class of convex surfaces. (Russian) **90e:53075**
McLeod, Kevin (*with* Troy, William C.; Weissler, F. B.) Radial solutions of $\Delta u+f(u)=0$ with prescribed numbers of zeros. **90m:35021**
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Nagasaki, Ken'ichi Radial solutions for $\Delta u+|x|^l|u|^{p-1}u=0$ on the unit ball in $\mathbf{R}^n$. **90j:35015**
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Pascali, Dan Generalized subdifferentiable perturbations. **90m:58055**
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Petrova, M. A. (*with* Shishmarëv, I. A.) Periodic solutions of partial differential equations with small parameters. (Russian) **90c:35014**
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Ruf, Bernhard On the number of solutions of superlinear boundary value problems. (*see* **90j:00016**)
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Trudinger, Neil S. Hölder gradient estimates for fully nonlinear elliptic equations. **90b:35041**

Tshinanga, S. B. An invariance property of the critical groups. (Italian summary) **90j:58025**

Ural′tseva, N. N. On the regularity of solutions of variational inequalities. (Russian) **90c:35033**

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Willem, M. Bifurcation, symmetry and Morse theory. (Italian summary) **90k:58044**

Yu, Qing Yu (*with* Ma, Tian) The positive solutions of quasilinear elliptic boundary value problem. **90m:35022**

Zhang, Gong An The boundary value problems for the higher order quasilinear parabolic and elliptic systems satisfying general boundary conditions. **90a:35126**

Zhou, Huan Song The existence of positive solutions to nonautonomous field equations on $\mathbf{R}^N$. (Chinese) **90k:35016**

Zvyagin, V. G. Properness of elliptic and parabolic differential operators. (Russian) **90k:58224**

35J67 Boundary values of solutions

Citti, Giovanna Wiener estimates at boundary points for Hörmander's operators. (Italian summary) **90d:35109**

Kazaryan, K. S. The Dirichlet problem in a weighted metric for a ball in $\mathbf{R}^n$, $n \geq 3$. **90a:35096**

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Dal Maso, Gianni (*with* Mosco, U.) The Wiener modulus of a radial measure. **90i:35076**

Heinonen, Juha Boundary accessibility and elliptic harmonic measures. **90i:31015**

Kutev, Nikolaĭ D. Boundary gradient estimates for the solutions of fully nonlinear elliptic equations. (Bulgarian summary) **90j:35089**

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Polit-Gancarczyk, Elżbieta *see* **Burys, Stanisław, 90i:31018**

35J70 Equations and systems of degenerate type

Aliev, M. I. The third boundary value problem for degenerate linear elliptic equations. **90f:35079**

Bagirov, L. A. Solvability of a class of boundary value problems for elliptic equations that are degenerate on part of the boundary. **90b:35102**

Biroli, Marco (*with* Marchi, Silvana) Wiener estimates for degenerate elliptic equations. II. **90h:35103**

Chiarenza, Filippo (*with* Rustichini, Aldo; Serapioni, R.) De Giorgi-Moser theorem for a class of degenerate non-uniformly elliptic equations. **90f:35080**

Choe, In Sob A boundary value problem for a system of elliptic differential equations of the 2nd order with a pole in the coefficients. (Korean. English summary) (Not in MR)

D'Auria, Nunzia A. (*with* Fiodo, Ornella) A degenerate elliptic transmission problem. (Italian. English summary) **90c:35094**

De Arcangelis, Riccardo On the G-approximability of degenerate elliptic operators in weighted Sobolev spaces. (Italian. English summary) **90c:35095**

Debbaj, Omar (*with* Intissar, Ahmed) Régularité L^p des problèmes aux limites de type Hermite et Tricomi. [L^p-regularity of boundary value problems of Hermite and Tricomi type] **90e:35075**

Ding, Shi Jin Interior estimates for solutions of a class of linear elliptic equations with boundary degeneracy. (Chinese. English summary) **90a:35097**

Duong Minh Duc A class of strongly degenerate elliptic operators. **90m:35075**

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Franchi, Bruno (*with* Serapioni, R.) Pointwise estimates for a class of strongly degenerate elliptic operators: a geometrical approach. **90e:35076**

Gedvilaĭte, A. A. (*with* Kaklauskas, L. L.; Jurgaitis, Donatas) A first-order elliptic system with semiregular degeneration. **90d:35110**

Glushko, V. P. Some properties of weighted function spaces that are connected with higher-order degenerate elliptic equations. (Russian) (*see* **90k:00021**)

Gutiérrez, Cristian E. Harnack's inequality for degenerate Schrödinger operators. **90g:35062**

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Khasanov, Anvardzhan A degenerate elliptic equation in a three-dimensional space. (Russian) **90d:35111**

Kuznetsova, N. A. Asymptotic representations of solutions of a second-order degenerate differential equation. (Russian) (*see* **90a:00007**)

Kvedaras, Bronius A strongly degenerate elliptic equation with analytic coefficients. (Russian) **90f:35081**

— Representation of solutions of strongly degenerate elliptic equations with analytic coefficients. **90d:35112**

Lavrenyuk, S. P. A mixed problem for a degenerate equation of plate oscillation type. **90j:35095**

Levendorskiĭ, S. Z. Types of degenerate elliptic operators. **90d:35113**

— On the types of degenerate elliptic operators. **90i:35112**

Lieberman, Gary M. Boundary regularity for solutions of degenerate elliptic equations. **90a:35098**

Lizorkin, P. I. *see* **Nikol′skiĭ, S. M.; et al., 90b:35104**

Makhortov, S. D. Solvability of some degenerate boundary value problems for elliptic equations. (Russian) (*see* **90a:00007**)

Mamaturdiev, T. M. The Hilbert problem for a second-order degenerate complex elliptic equation. (Russian) **90b:35103**

Mamedov, I. T. The Dirichlet problem for nonuniformly degenerate second-order elliptic equations. (Russian) (*see* **90k:00021**)

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Mukhsinov, A. (*with* Muminov, A.) The Dirichlet problem for a singular differential equation of elliptic type. (Russian. Tajiki summary) **90h:35104**

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Muratbekov, M. B. The spectrum of a class of nonuniformly degenerate elliptic operators. (Russian) (*see* **90h:00003**)

Nikol′skiĭ, S. M. (*with* Lizorkin, P. I.; Miroshin, N. V.) Weighted function spaces and their applications to the investigation of boundary value problems for degenerate elliptic equations. **90b:35104**

Panyushkin, V. N. Coercive solvability of general boundary value problems for degenerate second-order elliptic systems. (Russian) (*see* **90a:00007**)

— Theorems on the existence of and the increasing of the smoothness of solutions for degenerate elliptic equations. (Russian) **90a:35099**

Rakhmonov, Kh. O. The second energy inequality for degenerate elliptic equations in multidimensional domains. (Russian) (*see* **90h:00007**)

Rempel, S. Regularity of solutions to degenerate operators. **90j:35096**

Romaskevich, L. P. Convergence in the mean of solutions of second-order singularly perturbed degenerate elliptic equations. **90i:35113**

Rustichini, Aldo *see* **Chiarenza, Filippo; et al., 90f:35080**

Rybalov, Yu. V. The exterior Neumann problem for an elliptic equation that is degenerate at infinity. **90b:35106**

— The Neumann problem for a degenerate elliptic equation in divergence form. **90c:35096**

— Interior and exterior Neumann problems for a degenerate elliptic equation in divergence form. **90b:35105**

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Shakhmurov, V. B. Coercive boundary value problems for degenerate anisotropic equations. **90d:35114**

Shan′kov, V. V. Generalized solution of a quasilinear elliptic equation with degeneration. **90i:35114**

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Tungatarov, A. A Carleman-Vekua equation with a singular point. **90h:35106**

Yanushauskas, A. I. Some boundary value problems for elliptic equations whose order degenerates. **90e:35077**

Zakirov, S. Kh. Existence of a solution of a nonlocal boundary value problem for a degenerate elliptic equation with a quadratic form that changes sign. (Russian) **90g:35063**

Zuily, C. Existence locale de solutions C^∞ pour l'équation de Monge-Ampère. (English summary) [Local existence of C^∞ solutions for the Monge-Ampère equation] **90e:35078**

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Bagirov, L. A. Elliptic boundary value problems for equations of Chaplygin type. (Russian) **90i:35086**

Baĭkuziev, K. B. Estimates for the eigenfunctions of degenerate operators. **90c:34025**

Bidaut-Véron, Marie-Françoise Local and global behavior of solutions of quasilinear equations of Emden-Fowler type. **90f:35066**

Byashimov, I. On the rate of convergence of the Seidel method for solving the Dirichlet difference problem for an equation of elliptic type with singular coefficients. (Russian) (*see* **90d:00022**)

Chen, Zu Chi Regularity for $W^{1,2}$-solutions of certain degenerate elliptic equations. (Chinese summary) **90c:35030**

De Arcangelis, Riccardo On the convergence of nonlinear Beltrami type operators. **90g:30023**

Duong Minh Duc Coercive properties of elliptic-parabolic operators. **90c:35153**

Egnell, Henrik Elliptic boundary value problems with singular coefficients and critical nonlinearities. **90g:35055**

Esposito, Vincenzo (*with* Miserendino, Doriano) Poisson kernel for a class of Grushin operators. (Italian) **90e:35179**

Heinonen, Juha (*with* Kilpeläinen, Tero) Polar sets for supersolutions of degenerate elliptic equations. **90g:31007**

Hoshiro, Toshihiko Hypoellipticity for infinitely degenerate elliptic and parabolic operators of second order. **90c:35049**

Kilpeläinen, Tero Potential theory for supersolutions of degenerate elliptic equations. **90e:35061**

— *see also* **Heinonen, Juha, 90g:31007**

Kydyraliev, S. K. Increasing the smoothness of solutions of second-order degenerate elliptic equations. (Russian) **90d:35044**

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Li, Gong Bao (*with* Zhu, Xi Ping) Nontrivial solution of nonlinear scalar field equations with strong nonlinearity. **90b:35086**

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Morimoto, Yoshinori Propagation of wave front sets and hypoellipticity for degenerate elliptic operators. **90b:35057**

Nguyễn Minh Chu'o'ng (*with* Lê Quang Trung) Degenerate nonlinear elliptic differential equations of infinite order in weighted Sobolev-Orlicz spaces. (Russian) **90b:35251**

Radzhabov, N. R. An integral representation for a second-order general linear elliptic equation with a singular line. (Russian. Tajiki summary) **90j:35051**

Rakotoson, J.-M. (*with* Ziemer, William P.) Local behavior of solutions of quasilinear elliptic equations with general structure. **90j:35082**

Raymond, J.-P. Regularité globale des solutions de systèmes elliptiques non linéaires.

(English summary) [Global regularity of the solutions of nonlinear elliptic systems] **90k:35055**

Tungatarov, A. Continuous solutions of a Carleman-Vekua equation with a singular point. (Russian. Kazakh summary) **90k:30089**

Wen, Guo Chun Some boundary value problems for nonlinear degenerate elliptic complex equations. **90j:35093**

Xu, Chao Jiang On Harnack's inequality for second-order degenerate elliptic operators. (Chinese) **90m:35039**

Xu, Chuan-yi The existence of nonclassical asymptotic expansion of the trace of a heat kernel for a degenerate elliptic operator. **90k:58217**

Yoshida, Kiyoshi A remark on nonnegative solutions with compact support for degenerate semilinear elliptic equations. **90g:35010**

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35J85 Unilateral problems; variational inequalities [see also 35R35, 49A29]

Aniţa, Sebastian² Filippov solutions for elliptic variational inequalities. **90h:35107**

Cibulis, Andris Solvability of elliptic variational inequalities with discontinuous nonlinearities. (Russian) **90h:35108**

Dal Maso, Gianni (*with* Paderni, G.) Variational inequalities for the biharmonic operator with variable obstacles. **90j:35097**

— (*with* Mosco, U.; Vivaldi, M. A.) A pointwise regularity theory for the two-obstacle problem. **90m:35076**

— (*with* Defranceschi, Anneliese) Convergence of unilateral problems for monotone operators. **90k:35109**

Defranceschi, Anneliese *see* **Dal Maso, Gianni, 90k:35109**

Degiovanni, M. On the buckling of a thin elastic plate subjected to unilateral constraints. **90j:35098**

Dierkes, Ulrich Boundary regularity for solutions of a singular variational problem with linear growth. **90b:35107**

Ghiţă, Constantin Schéma itératif pour la résolution d'une inéquation quasi-variationnelle, avec application au processus métallurgique de ségrégation. (English and Romanian summaries) [An iterative scheme for the solution of a quasivariational inequality, with an application to a metallurgical segregation process] **90h:35109**

Hu, Bei Obstruction problems for a class of nonlinear elliptic equations. (Chinese) **90c:35097**

Huisken, Barbara Second-order boundary regularity for quasilinear variational inequalities. **90d:35116**

Ishii, Hitoshi (*with* Yamada, Naoki) A remark on a system of inequalities with bilateral obstacles. **90m:35077**

Kenmochi, Nobuyuki (*with* Pawłow, Irena) Asymptotic behavior of solutions to parabolic-elliptic variational inequalities. **90k:35110**

Khludnev, A. M. Variational inequalities in contact plastic problems. **90a:35100**

Mosco, U. *see* **Dal Maso, Gianni; et al., 90m:35076**

Paderni, G. *see* **Dal Maso, Gianni, 90j:35097**

Passaseo, Donato Multiplicity of solutions for certain variational inequalities of elliptic type. (Italian. English summary) **90i:35115**

Pavlenko, V. N. Existence theorems for elliptic variational inequalities with quasipotential operators. **90a:35101**

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Raitums, Uldis An analogue of G-convergence for elliptic variational inequalities. (Russian) **90g:35064**

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Schumann, Rainer Regularity for Signorini's problem in linear elasticity. **90c:35098**

Simon, László On strongly nonlinear elliptic variational inequalities. **90b:35108**

Vitali, Enrico A result of Meyers for quasilinear elliptic systems of variational inequalities. (Italian. English summary) **90i:35116**

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Athanasopoulos, Ioannis Regularity of the solution for minimization problems with free boundary on a hyperplane. **90j:35198**

Boccardo, Lucio (*with* Murat, François; Puel, Jean-Pierre) Existence of bounded solutions for nonlinear elliptic unilateral problems. (French and Italian summaries) **90d:49003**

Carriero, M. *see* **De Giorgi, E.; et al., 90j:49002**

Dacorogna, Bernard Weak continuity and weak lower semicontinuity of nonlinear functionals. (Russian) **90i:49011**

De Giorgi, E. (*with* Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. **90j:49002**

Friedman, Avner ★ Variational principles and free-boundary problems. **90k:35271**

Fuchs, Martin² (*with* Wiegner, Michael) The regularity of minima of variational problems with graph obstacles. **90f:49004**

Garroni, M. G. (*with* Vivaldi, M. A.) Stability of free boundaries. **90d:35308**

Gavrilyuk, I. P. The penalty method for variational inequalities in the case of a cone of constraints. **90i:49007**

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Gilbert, R. P. (*with* Shi, Peter) Anisotropic Hele-Shaw flows. **90h:35255**

Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. **90c:49010**

Khludnev, A. M. Optimal control of a variational inequality in a contact problem for a plate. (Russian) **90e:73116**

Kilpeläinen, Tero Polar sets in a nonlinear potential theory. **90d:31022**

Leaci, A. *see* **De Giorgi, E.; et al., 90j:49002**

Leonetti, Francesco On the Hölder-continuity of ω-minima. (Italian summary) **90j:35057**

Li, Mao Xiang (*with* Xu, Jia Mo) A dual method for multiphase Stefan [problems]. **90m:35208**

Lindqvist, Peter Regularity for the gradient of the solution to a nonlinear obstacle problem with degenerate ellipticity. **90b:49011**

Lions, P.-L. On the Schwarz alternating method. II. Stochastic interpretation and order properties. **90e:65140**

Luckhaus, S. (*with* Modica, Luciano) The Gibbs-Thompson relation within the gradient theory of phase transitions. **90k:49041**

Modica, Luciano *see* **Luckhaus, S., 90k:49041**

Murat, François *see* **Boccardo, Lucio; et al., 90d:49003**

Neittaanmäki, Pekka *see* **Haslinger, J., 90c:49010**

Nochetto, Ricardo H. Pointwise accuracy of a finite element method for nonlinear variational inequalities. **90d:65197**

Puel, Jean-Pierre *see* **Boccardo, Lucio; et al., 90d:49003**

Rodrigues, José-Francisco Singular perturbations in the obstacle plate problem. **90a:35017**

Rozhkovskaya, T. N. Convex sets in $W_p^1(\Omega)$ and their normal cones. Applications to variational inequalities. **90i:46068**

Schianchi, R. An estimate for the minima of the functionals of the calculus of variations. **90b:49036**

Shi, Peter *see* **Gilbert, R. P., 90h:35255**

Sokołowski, J. (*with* Zolésio, J.-P.) Shape sensitivity analysis in the presence of singularities. **90c:35024**

Ural′tseva, N. N. Estimates of derivatives of solutions of elliptic and parabolic inequalities. **90a:35033**

— On the regularity of solutions of variational inequalities. (Russian) **90c:35033**

Velte, W. Complementary variational principles. **90i:65206**

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Bezrukova, O. L. (*with* Dairbekov, N. S.; Kopylov, A. P.) On mappings close in the C-norm to classes of solutions of linear elliptic systems of partial differential equations. (Russian) **90c:35099**

Clément, Philippe (*with* Sweers, G.) Getting a solution between sub- and supersolutions without monotone iteration. (Italian summary) **90h:35110**

Constanda, Christian Complete systems of functions for the exterior Dirichlet and Neumann problems in the bending of Mindlin-type plates. **90m:35078**

Dairbekov, N. S. *see* **Bezrukova, O. L.; et al., 90c:35099**

Hòang Quốc Toan Boundary problems in limit domains and nonelliptic boundary problems for partial differential equations. **90d:35117**

Hu, Chuan Gan The disturbance of vector-valued doubly-periodic Riemann boundary-valued problems. **90a:35102**

Kondrat′ev, V. A. (*with* Oleĭnik, O. A.) On Korn's inequalities. (French summary) **90i:35117**

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Roĭtberg, Ya. A. (*with* Sheftel′, Z. G.) On the denseness of solutions to elliptic problems with localized right-hand sides in function spaces on a manifold. **90i:35118**

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35Kxx Parabolic equations and systems [see also 58G11]

35K05 Heat equation

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— Some properties of Green's function for Fourier's first iterated problem in $(n+1)$-dimensional time-space cube. **90a:35104**

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35K10 Second-order equations, general

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Bobula, Eugeniusz On some solution of the diffusion equation. **90d:35126**
Dosumov, T. B. (*with* Khodzhanova, Zh. A.) Generalized solution and its investigation by the Lyapunov functional method. (Russian) **90a:35106**
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Gurevich, A. Vl. (*with* Mints, R. G.; Pukhov, A. A.) Motion of a kink in a bistable medium with hysteresis. **90d:35127**
Heurteaux, Yanick Inégalités de Harnack à la frontière pour des opérateurs paraboliques. (English summary) [Boundary Harnack inequalities for parabolic operators] **90f:35085**
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Nazarov, A. I. Interpolation of linear spaces and estimates for the maximum of a solution for parabolic equations. (Russian) **90i:35119**
Ospanov, K. N. Properties of solutions of parabolic equations with nonsmooth coefficients. (Russian) (*see* **90h:00003**)
Porper, F. O. (*with* Èĭdel′man, S. D.) On the validity of two-sided estimates for weak fundamental solutions of diffusion equations with drift. (Russian. English summary) **90d:35128**
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Sadyrbaev, F. Zh. On the number of stationary solutions of a scalar parabolic equation. (Russian) **90e:35080**
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Semenov, Yu. A. *see* **Kovalenko, V. F., 90j:35105**
Shishkov, A. E. Behavior of generalized solutions of parabolic equations in divergence form in a neighborhood of a boundary point. (Russian) (*see* **90k:00021**)
Sidorowicz, Józef On the fundamental solution of a parabolic equation with small parameters. (Russian) **90c:35100**
Wang, Xu Jia Schauder estimates for solutions to second-order linear parabolic equations. (Chinese) **90c:35101**
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Ad″yutov, M. M. Self-similar solutions of a nonlinear equation of parabolic type. (Russian) **90b:35046**

Amonov, B. K. An ill-posed problem without initial conditions. (Russian) **90d:35286**

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(Barbu, Viorel) *see* **Moroşanu, Gheorghe, 90a:34139**

Bogdanskiĭ, Yu. V. The Cauchy problem for the heat equation with a nonregular elliptic operator. **90j:35189**

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Brauner, Claude-Michel (*with* Noor Ebad, Samadollah; Schmidt-Lainé, Claudine) Sur la stabilité d'ondes singulières en combustion. (English summary) [Stability analysis of singular travelling waves in combustion] **90a:35021**

Brzychczy, Stanisław An estimate for the rate of convergence of successive Chaplygin approximations for a parabolic system of functional-differential equations. (Russian) **90i:35274**

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Chung, Chang-Bock (*with* Kravaris, Costas) Identification of spatially discontinuous parameters in second-order parabolic systems by piecewise regularisation. **90a:93035**

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Guo, Bao Qi (*with* Tian, Hong Chang) A uniqueness theorem for an inverse problem of determining two unknown prarameters in a parabolic equation. (Chinese. English summary) **90b:35240**

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Joseph, K. T. Boundary layers in approximate solutions. **90g:35096**

Kauffman, Robert M. A strong contractivity property for semigroups generated by differential operators. **90a:47123**

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Kravaris, Costas *see* **Chung, Chang-Bock, 90a:93035**

Kristev, D. I. A generalized Phragmén-Lindelöf theorem for the parabolic differential equation. **90j:35014**

Kröger, Pawel Harmonic spaces associated with parabolic and elliptic differential operators. **90k:31011**

Krotova, V. S. Asymptotic differentiation of the state of a parabolic system that is controllable with respect to the variation in the boundary. (Russian) **90g:93052**

Lanconelli, Ermanno *see* **Garofalo, Nicola, 90i:35040**

Lepin, L. A. Uniqueness of the monotone solution of a self-similar equation in the theory of nonlinear heat conduction. (Russian) **90b:35047**

Liang, Xi Ting Improved estimates of the maximum modulus of generalized solutions to linear second-order elliptic and parabolic equations. (Chinese. English summary) **90k:35061**

Mawata, C. A priori estimates and existence theory for entire solutions of linear parabolic equations. (*see* **90j:00016**)

— Schauder estimates and existence theory for entire solutions of linear parabolic equations. **90i:35024**

Moroşanu, Gheorghe ★ Nonlinear evolution equations and applications. **90a:34139**

Nezbaĭlo, T. G. Representation in explicit form of the fundamental solution of a class of equations of parabolic type. (Russian) (*see* **90d:34002**)

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Phạm Lợi Vũ Inverse problems for parabolic equations. **90i:35285**

Radkevich, E. V. Operator pencils of contact problems with a free boundary. (Russian) **90g:35168**

Rashchepkina, N. A. *see* **Kirpikova, O. I., (90h:00010)**

Ratyni, A. K. A problem of determining the matrix of coefficients multiplying the highest derivatives of a parabolic equation. III. (Russian) (*see* **90d:00012**)

Sauer, Niko The Friedrichs extension of a pair of operators. **90k:47090**

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Seinfeld, John H. *see* **Yu, Wen Huan, 90g:93035**

Shen, Lian Shan The boundary layer weighted residual method for singular perturbation problems of parabolic equations. (Chinese. English summary) **90c:65152**

Smagulov, B. T. A stationary equation of free convection with dissipation. (Russian) (*see* **90m:00032**)

Solov′ev, V. V. Solvability of an inverse problem of determining a source, with overdetermination on the upper cap, for a parabolic equation. **90h:35247**

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Umbetzhanov, D. U. Solutions of parabolic equations that are almost periodic with respect to all space-time variables. (Russian. Kazakh summary) **90g:35012**

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Vespri, Vincenzo Analytic semigroups generated on a functional extrapolation space by variational elliptic equations. (Italian summary) **90f:35055**

Watson, N. A. ★ Parabolic equations on an infinite strip. **90e:35001**

Winiarska, Teresa ★ Differential equations with parameter. **90e:35164**

Wu, Jian Cheng *see* **Guo, Bao Qi, 90d:35290**

Yu, Wen Huan (*with* Seinfeld, John H.) Identification of distributed parameter systems with pointwise constraints on the parameters. **90g:93035**

35K15 Second-order equations, initial value problems

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Chuĭko, G. I. A nonselfadjoint evolution problem. (Ukrainian. Russian summary) (Not in MR)

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Minasyan, V. B. The averaging principle for parabolic equations ("the fast variable is an Anosov flow"). **90g:35066**

Repnikov, V. D. Asymptotic behavior of solutions of the Cauchy problem for second-order parabolic equations with an elliptic part in divergence form. **90d:35129**

Sauer, Niko Dynamical processes associated with dynamic boundary conditions for partial differential equations. **90k:35114**

Vitali, Enrico Estimates of the Green function for parabolic operators, and applications. (Italian. English summary) **90c:35102**

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Amouroux, M. (*with* Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] **90h:49018**

Benbrik, A. *see* **Amouroux, M., 90h:49018**

Bubnov, B. A. An inverse problem for a parabolic equation and the Cauchy problem for some classes of evolution equations in classes of functions of finite smoothness. **90a:35221**

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Danilyuk, I. I. (*with* Timchenko, S. I.) An initial-boundary value problem for a quasilinear parabolic equation with piecewise-continuous coefficients. (Russian. English summary) **90c:35103**

Lelikova, E. F. Asymptotic behavior of the fundamental solution of a parabolic equation in the critical case. (Russian) **90k:35036**

Nambu, Takao Output stabilisation for a class of linear parabolic differential equations. **90a:35024**

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Zhamalov, R. S. A mixed problem with time derivatives in the boundary condition for the heat equation. (Russian) (*see* **90a:00007**)

35K20 Second-order equations, boundary value problems

Baderko, E. A. Solution of a problem with an oblique derivative for a parabolic equation by the method of boundary integral equations. **90b:35112**

Chan, Chiu Yeung (*with* Wong, Benedict M.) Periodic solutions of singular linear and semilinear parabolic problems. **90m:35080**

Danilyuk, I. I. (*with* Timchenko, S. I.) An initial-boundary value problem for a quasilinear parabolic equation with piecewise-continuous coefficients. (Russian. English summary) **90c:35103**

Donato, Santi A normal derivative problem for a class of parabolic equations in several variables with discontinuous coefficients. (Italian. English summary) **90i:35120**

Eredzhibokova, M. A. A boundary value problem for a loaded equation of parabolic type. (Russian) **90e:35081**

Fabes, E. B. (*with* Garofalo, Nicola; Lanconelli, Ermanno) Wiener's criterion for divergence form parabolic operators with C^1-Dini continuous coefficients. **90k:35115**

Gagnidze, A. G. The uniqueness of solutions of boundary value problems for parabolic equations in unbounded domains. (Russian. English summary) **90d:35130**

Garofalo, Nicola *see* **Fabes, E. B.; et al., 90k:35115**

Gasanova, I. A. Solvability of the first boundary value problem for parabolic equations in noncylindrical domains. (Russian. English and Azerbaijani summaries) **90i:35121**

Hawlitschek, Kurt Approximation Greenscher Funktionen bei parabolischen Differentialgleichungen. (English summary) [Approximation of Green functions for parabolic differential equations] **90k:35116**

Joly, Patrick Pseudo-transparent boundary conditions for the diffusion equation. I. **90k:35117**

Kaufman, Robert P. (*with* Wu, Jang-Mei) An example on highly singular parabolic measure. **90b:35113**

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— Lower bounds on the Green function of the second mixed problem for a second-order parabolic equation. **90j:35107**

Lieberman, Gary M. Intermediate Schauder theory for second order parabolic equations. III. The tusk conditions. **90j:35108**

Lopushans′ka, G. P. Solution of the second boundary value problem for a second-order parabolic equation in a space of generalized functions. (Ukrainian. Russian summary) (Not in MR)

Mirzoev, V. M. Boundary and initial values of the solutions of a second-order parabolic equation with discontinuous coefficients. (Russian. English and Azerbaijani summaries) **90c:35104a**

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Selvaggi, Renata (*with* Sisto, Irene) Boundary value problems in C^1-cylinders for second-order parabolic equations with coefficients satisfying a Dini condition. (Italian. English summary) **90e:35082**
Shishkov, A. E. Uniqueness classes of solutions of mixed problems for parabolic equations in nontube domains. (Russian) **90c:35105**
Sinestrari, Eugenio (*with* von Wahl, Wolf) On the solutions of the first boundary value problem for the linear parabolic equations. **90c:35106**
Sisto, Irene *see* **Selvaggi, Renata, 90e:35082**
Terreni, Brunello Nonhomogeneous initial-boundary value problems for linear parabolic systems. **90g:35067**
Timchenko, S. I. *see* **Danilyuk, I. I., 90c:35103**
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Wanka, Gert (*with* Wanka, Johanna) Approximationsprobleme bei Randkontaktaufgaben. II. (Parabolische Probleme). [Approximation problems for boundary contact problems. II. (Parabolic problems)] **90m:35081**
Wanka, Johanna *see* **Wanka, Gert, 90m:35081**
Weidemaier, Peter Refinement of an L^p-estimate of Solonnikov for a parabolic equation of the second order with conormal boundary condition. **90k:35118**
Wong, Benedict M. *see* **Chan, Chiu Yeung, 90m:35080**
Wu, Jang-Mei An example on null sets of parabolic measures. **90e:35083**
— *see also* **Kaufman, Robert P., 90b:35113**
Yong, Jiong Min Weak solutions of second order parabolic equations in noncylindrical domains. **90g:35068**
Zhamalov, R. S. Mixed problems for evolution equations with derivatives with respect to time occurring in a boundary condition. (Russian) **90g:35069**

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Amann, Herbert Feedback stabilization of linear and semilinear parabolic systems. **90k:35138**
Antontsev, S. N. (*with* Díaz Díaz, Jesús Ildefonso) New results on the localization of solutions of nonlinear elliptic and parabolic equations that are obtained by the energy method. **90d:35068**
Bagaev, B. M. A study of a parabolic equation with a small parameter multiplying the highest derivative. (Russian) **90i:65188**
Bazalii, B. V. Boundary value problems with a free boundary for parabolic equations. (Russian) (*see* **90k:00021**)
Bubnov, B. A. Existence and uniqueness of the solution of inverse problems for parabolic and elliptic equations. (Russian) **90f:35198**
Buchnev, V. Yu. *see* **Butuzov, V. F., 90d:35048**
Butuzov, V. F. (*with* Buchnev, V. Yu.) On the asymptotic behavior of the solution of a singularly perturbed parabolic problem in the two-dimensional case. **90d:35048**
Chou, Yong Gang Boundary homogenization for parabolic problems. (Chinese) **90c:35019**
Đăng Đình Áng (*with* Folias, Tim; Keinert, Fritz; Stenger, Frank) Viscoplastic flow due to penetration: a free boundary value problem. (French summary) **90c:35203**
Díaz Díaz, Jesús Ildefonso *see* **Antontsev, S. N., 90d:35068**
Folias, Tim *see* **Đăng Đình Áng; et al., 90c:35203**
Garroni, M. G. Green function and invariant density for an integro-differential operator. **90d:35070**
Golichev, I. I. Some iterative methods for solving problems for parabolic equations. **90e:65169**
Gubal′, L. O. *see* **Kostenko, V. G.**, (Not in MR)
Guliev, A. F. Capacity conditions for the regularity of boundary points for parabolic second-order equations. (Russian. English and Azerbaijani summaries) **90j:35043**
Itô, Masayuki^1 (*with* Nishio, Masaharu) Poincaré type conditions of the regularity for the parabolic operator of order α. **90j:35044**
Keinert, Fritz *see* **Đăng Đình Áng; et al., 90c:35203**
Koltunovskiĭ, O. A. A boundary value problem for a degenerate equation of parabolic type. (Russian) (*see* **90a:00007**)
Kostenko, V. G. (*with* Gubal′, L. O.) An approximate solution of a mixed problem for parabolic systems of equations. (Ukrainian. Russian summary) (Not in MR)
Kozlov, Vladimir Arkad′evich Asymptotic behavior as $t \to 0$ of the solutions of the heat equation in a domain with a conic point. **90b:35032**
Lezhenina, I. F. (*with* Sobolevskiĭ, P. E.) Elliptic and parabolic boundary value problems with a singular coefficient estimate. (Russian. English summary) **90d:35071**
Lions, P.-L. Une approche élémentaire de quelques résultats de symétrisation. [An elementary approach to some symmetrization results] **90a:35039**
— (*with* Pacella, Filomena) Isoperimetric inequalities for convex cones. **90i:52021**
Nishio, Masaharu *see* **Itô, Masayuki^1, 90j:35044**
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Penning, F. D. A stability theory for initial-boundary value problems of parabolic type. **90j:35031**
Sacerdote, L. Some remarks on first-passage-time problems. **90f:60143**
Safiev, È. K. Coincidence of the classical and the generalized solutions of a mixed problem for a parabolic equation. **90j:35058**
Salsa, Sandro Boundary behavior for solutions of elliptic and parabolic equations. (Italian. English summary) **90m:35027**
Schleinkofer, Gerhard An antimaximum principle for periodic parabolic equations. (Spanish. English summary) **90k:35046**
Sobolevskiĭ, P. E. *see* **Lezhenina, I. F., 90d:35071**
Stenger, Frank *see* **Đăng Đình Áng; et al., 90c:35203**
Tsymbal, Victor A nonlocal problem for a singularly perturbed equation. (Ukrainian. Russian summary) (Not in MR)
Zhamalov, R. S. A mixed problem with time derivatives in the boundary condition for the heat equation. (Russian) (*see* **90a:00007**)

35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

Feng, De Xing *see* **Zhang, Bing Yu, 90b:35114**
Zhang, Bing Yu (*with* Feng, De Xing) Convergence of solutions of parabolic partial differential equation on perturbed domains. **90b:35114**

Items with secondary classifications in 35K22

Acquistapace, Paolo Evolution operators and strong solutions of abstract linear parabolic equations. **90b:34094**
Amann, Herbert Parabolic evolution equations in interpolation and extrapolation spaces. **90e:47032**
Anikonov, Yu. E. (*with* Bubnov, B. A.) Control problems and inverse problems. **90c:35196**
Bubnov, B. A. *see* **Anikonov, Yu. E., 90c:35196**
Liu, Gui Zhong ★ Evolution equations and scales of Banach spaces. **90h:47073**

35K25 Higher-order equations, general

Kozlov, Vladimir Arkad′evich Asymptotics of the Green function and Poisson kernels of a mixed parabolic problem in a cone. I. (Russian. English and German summaries) **90i:35122**
McMichael, J. D. (*with* Oberlin, Daniel M.) Unique continuation theorems for some parabolic operators. **90m:35082**
Oberlin, Daniel M. *see* **McMichael, J. D., 90m:35082**

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Kochubeĭ, A. N. Parabolic pseudodifferential equations, hypersingular integrals and Markov processes. **90c:60048**
Musiałek, Jan (*with* Pytel-Kudela, Marzenna) An m-parabolic problem for the strip. (Polish summary) **90g:35077**
Pytel-Kudela, Marzenna *see* **Musiałek, Jan, 90g:35077**
Shakhbagyan, R. L. A general initial-boundary value problem for higher-order infinite-dimensional parabolic equations. (Russian) **90a:35217**
Sobolevskiĭ, P. E. Elliptic and parabolic operators in the space C. **90j:47065**
— Imbedding theorems for elliptic and parabolic operators in the space C. **90j:47066**
— Embedding theorems for elliptic and parabolic operators in C. **90d:35076**
Zhitarashu, N. V. Boundary values of weak generalized solutions of systems of parabolic equations. (Russian) **90d:35052**

35K30 Higher-order equations, initial value problems

Gagnidze, A. G. On the uniqueness of the solution of the Cauchy problem for a parabolic equation with increasing coefficients. (Russian. English and Georgian summaries) **90c:35107**
Gorodetskiĭ, V. V. The Cauchy problem for equations that are parabolic in the sense of Shilov in classes of generalized periodic functions. **90c:35108**
López, Martín On the solvability of the Cauchy problem for linear parabolic equations. (Spanish. English summary) **90m:35083**

35K35 Higher-order equations, boundary value problems

Akhmedov, Kh. Kh. Some boundary value problems for a parabolic equation with a changing time direction. (Russian) **90f:35089**
Bakoev, M. T. (*with* Rasulov, A. S.) Unbiased estimates for solutions of a class of boundary value problems for parabolic equations. (Russian) (*see* **90d:00015**)
Borok, V. M. (*with* Evdokimova, S. V.) Regular boundary value problems in a strip. (Russian) **90k:35119**
Ègamberdyev, O. M. An ill-posed problem for an abstract bicaloric equation. (Russian) **90a:35108**
Evdokimova, S. V. *see* **Borok, V. M., 90k:35119**
Kozlov, Vladimir Arkad′evich The Green function and Poisson kernels of a parabolic problem in a domain with a conic point. **90b:35115**
Kubaszewski, Władysław A limit problem for a certain factorised partial differential equation. (Polish summary) **90h:35114**
López, Martín On the solvability of boundary value problems for linear and nonlinear parabolic equations. (Spanish. English summary) **90d:35131**
Rasulov, A. S. *see* **Bakoev, M. T., (90d:00015)**
Shishkov, A. E. *see* **Sleptsova, I. P., 90c:35109**
Sleptsova, I. P. (*with* Shishkov, A. E.) On the existence of generalized solutions, growing at infinity, of boundary value problems for higher-order linear parabolic equations. **90c:35109**
Suveĭka, I. V. Solvability of a mixed problem with the third boundary condition for first-order nonstationary equations and asymptotic behavior of solutions with respect to parameters. (Russian) **90e:35084**
Zhitarashu, N. V. L_2-theory of generalized solutions of linear parabolic boundary value problems and some of its applications. (Russian) (*see* **90k:00021**)

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Barański, Feliks (*with* Musiałek, Jan) The three-parabolic problem for half-space with boundary conditions of Lauricella type. **90d:35050**
Choi, Yung Sze (*with* Majda, Andrew J.) Amplification of small-amplitude high-frequency waves in a reactive mixture. **90g:80013**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) Estimates for nth-order derivatives of solutions of elliptic and parabolic equations at infinity. (Russian) **90h:35045**
Kadyrov, R. R. *see* **Dzhuraev, T. D., 90h:35045**
Kubaszewski, Władysław A limit problem for the equation $D_t P u = f$ in the strip. (Polish summary) **90i:35063**
Lavrenyuk, S. P. Nonlocal problems for elliptic equations with a parameter and for parabolic equations. (Ukrainian. Russian summary) (Not in MR)
Majda, Andrew J. *see* **Choi, Yung Sze, 90g:80013**
Musiałek, Jan *see* **Barański, Feliks, 90d:35050**
Russo, Remigio On generalized Saint Venant's principle and time asymptotic behaviour of solutions to a partial differential system of parabolic type in unbounded domains. (Italian summary) **90d:35033**

Vespri, Vincenzo Analytic semigroups generated in $H^{-m,p}$ by elliptic variational operators and applications to linear Cauchy problems. **90j:47049**

von Wahl, Wolf Applications of the theory of semigroups with nondensely defined generators. **90j:47050**

35K40 Systems, general

Bramson, Maury D. Convergence to traveling waves for systems of Kolmogorov-like parabolic equations. **90f:35090**

Khabirov, S. V. Solutions of second-order evolution equations, obtained by means of differential substitutions. (Russian) **90e:35085**

Saparmuradov, A. On a property of the feasibility set of a parabolic system. (Russian) (*see* **90d:00022**)

Walker, Glen R. Solution to a class of coupled linear partial differential equations. **90b:35116**

Items with secondary classifications in 35K40

Evans, L. C. (*with* Souganidis, P. E.) A PDE approach to certain large deviation problems for systems of parabolic equations. **90j:35026**

Gardashov, T. B. *see* **Iskenderov, A. D.; et al., 90h:35237**

Ibragimov, T. M. *see* **Iskenderov, A. D.; et al., 90h:35237**

Iskenderov, A. D. (*with* Gardashov, T. B.; Ibragimov, T. M.) Explicit solutions of certain multidimensional inverse problems for systems of parabolic-type equations. **90h:35237**

Kahane, Charles S. On the asymptotic behavior of solutions of parabolic equations under homogeneous Neumann boundary conditions. **90m:35034**

Khudaĭkulyev, G. A priori ε-estimation of the solution of linear parabolic systems. (Russian) (*see* **90d:00022**)

Lyashko, S. I. (*with* Man′kovskiĭ, A. A.) Controllability of parabolic systems with impulse action. **90g:93009**

Man′kovskiĭ, A. A. *see* **Lyashko, S. I., 90g:93009**

Nambu, Takao An extension of stabilizing compensators for boundary control systems of parabolic type. **90m:93099**

Souganidis, P. E. *see* **Evans, L. C., 90j:35026**

Volkov, N. P. The existence of solutions of some inverse problems of the determination of the right-hand side of a parabolic system. (Russian) (*see* **90d:00020**)

35K45 Systems, initial value problems

Gorodetskiĭ, V. V. Localization of the solutions of the Cauchy problem for $2\vec{b}$-parabolic systems in classes of generalized functions. (Russian) **90c:35110**

Items with secondary classifications in 35K45

Gorodetskiĭ, V. V. Some theorems on the stabilization of solutions of the Cauchy problem for systems that are parabolic in the sense of Shilov in classes of generalized functions. **90a:35023**

Guidetti, Davide On certain semigroups of linear operators and generalized Cauchy problem. **90f:35110**

Hill, James M. (*with* McNabb, Alex) On the problem of uncoupling systems of linear differential equations. **90b:35008**

Kantaeva, R. N. Solution of problems of Stefan type for systems of parabolic equations. (Russian) **90b:35249**

Kazakevich, È. I. Asymptotic integration of a parabolic system of equations. (Russian. English and Lithuanian summaries) **90a:35047**

Lions, P.-L. Viscosity solutions of fully nonlinear second order equations and optimal stochastic control in infinite dimensions. II. Optimal control of Zakai's equation. **90k:49032**

McNabb, Alex *see* **Hill, James M., 90b:35008**

Temirbulatov, S. I. A method for studying conditionally well-posed problems. (Russian) **90k:35260**

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35K50 Systems, boundary value problems

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35K60 Nonlinear boundary value problems for linear equations and systems; boundary value problems for nonlinear equations and systems

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35K65 Equations and systems of degenerate type

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Blanc, Philippe A degenerate parabolic equation. **90h:35132**
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Chen, Zu Chi (*with* Qian, Chun Lin) The mixed boundary value problem for degenerate quasilinear parabolic equations. **90b:35130**
Goldstein, Jerome A. (*with* Lin, Chin Yuan) Degenerate parabolic problems and the Wentzel boundary condition. **90h:35133**
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Gu, Lian Kun (*with* Huang, Qing Bo) The Cauchy problem for nonlinear degenerate or singular diffusion equations. **90k:35143**
Gutiérrez, Cristian E. (*with* Nelson, Gail S.) Bounds for the fundamental solution of degenerate parabolic equations. **90c:35128**
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Sacks, Paul E. A singular limit problem for the porous medium equation. **90f:35099**
Shi, Pei Lin *see* **Xie, Hong Zheng, 90h:35258**
Suzuki, Ryuichi *see* **Mochizuki, Kiyoshi, 90b:35035**
Tzavaras, Athanassios E. *see* **Friedman, Avner, 90e:80016**
Xie, Hong Zheng (*with* Shi, Pei Lin) A free boundary problem for a degenerate parabolic equation. **90h:35258**
Yan, Zi Qian A free boundary problem for ODE arising from degenerate parabolic equations. **90b:34030**
Yang, Shi Xin (*with* Zhuang, Qiong Shan) Initial-boundary value problems for nonlinear degenerate parabolic systems. (Chinese. English summary) **90k:35142**
Yin, Jing Xue On the classical solutions of degenerate quasilinear parabolic equations of the fourth order. **90h:35124**
Zaĭnulabidov, G. M. A mixed problem for a singular parabolic equation. (Russian) (*see* **90a:00004**)
Zhang, Hong Fei *see* **Bertsch, M.; et al., 90a:35230**
Zheng, Jia Mao The asymptotic behavior of solutions to a class of nonlinear degenerate parabolic problems. (Chinese. English summary) **90b:35036**
Zhuang, Qiong Shan *see* **Yang, Shi Xin, 90k:35142**

35K70 Ultraparabolic, pseudoparabolic problems

Atamanov, È. R. An interior problem for a pseudoparabolic equation. (Russian) **90j:35127**
Bian, Li Shan *see* **Shi, De Ming, 90f:35111**
Cannon, John R. (*with* Lin, Yanping) Classical and weak solutions for one-dimensional pseudo-parabolic equations with typical boundary data. **90c:35129**
Filippov, V. M. On a variational method for ultraparabolic equations. (Russian) **90d:35157**
Guidetti, Davide On certain semigroups of linear operators and generalized Cauchy problem. **90f:35110**
Lin, Yanping *see* **Cannon, John R., 90c:35129**
Shi, De Ming (*with* Bian, Li Shan) Characteristic problems for nonlinear third-order pseudoparabolic equations. (Chinese) **90f:35111**
Zhou, Zhen Zhong The spectral method for a class of higher-order nonlinear quasiparabolic equations. (Chinese. English summary) **90b:35132**

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Eldesbaev, T. Inverse problems for a degenerate pseudo-parabolic equation. (Russian) **90a:35224**
Gomboev, L. G. Stability estimates for the solution of an ultraparabolic equation. **90a:35022**
Sun, He Sheng Global solutions of boundary value problems and Cauchy problem for two types of nonlinear pseudo-parabolic systems. **90g:35078**

35K85 Unilateral problems; variational inequalities [see also 35R35, 49A29]

Biroli, Marco Existence and Meyers estimate for nonlinear parabolic variational inequalities. **90h:35136**
— Existence and Meyers estimates for solutions of a nonlinear parabolic variational inequality. **90h:35135**
Escobedo, M. (*with* Kavian, O.) Variational problems related to self-similar solutions of the heat equation. **90a:35128**
Kavian, O. *see* **Escobedo, M., 90a:35128**
Maksimov, V. I. Dynamic modeling of unknown perturbations in parabolic variational inequalities. **90d:35158**
Nagase, Haruo On an application of Rothe's method to nonlinear parabolic variational inequalities. **90k:35144**
Rodrigues, José-Francisco Strong stability results for the evolution obstacle problem with Neumann condition. **90f:35112**

Items with secondary classifications in 35K85

Filippov, V. M. On a variational method for ultraparabolic equations. (Russian) **90d:35157**
Haussmann, U. G. (*with* Pardoux, É.) Stochastic variational inequalities of parabolic type. **90k:60119**
Pardoux, É. *see* **Haussmann, U. G., 90k:60119**
Tarsi Santolini, Adelina Lipschitz regularity in the space variables for the solution of a parabolic quasilinear variational inequality. (Italian) **90a:35038**
Tsachev, Tsvetomir J. Optimal control problem for the heat equation. (Bulgarian summary) (*see* **90d:00041**)
Ural′tseva, N. N. Estimates of derivatives of solutions of elliptic and parabolic inequalities. **90a:35033**
Ziemer, William P. Regularity of weak solutions of parabolic variational inequalities. **90g:35031**

35K99 None of the above, but in this section

Ashyralyev, A. O. Coercive solvability of parabolic equations in spaces of smooth functions. (Russian. English summary) **90i:35150**
Bardos, Claude Diffusion approximation and the Milne problem computation of the boundary layer. **90c:35130**
Bhattacharya, Rabindra Nath (*with* Gupta, Vijay K.; Walker, Homer F.) Asymptotics of solute dispersion in periodic porous media. **90f:35113**
Bosse, Marie-Pascale (*with* Showalter, R. E.) Homogenization of the layered medium equation. **90m:35103**
Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Analyse mathématique de modèles variationnels en simulation pétrolière: le cas du modèle black-oil pseudo-compositionnel standard isotherme. (English summary) [Mathematical analysis of variational models in petroleum-flow simulation: the case of the standard isothermal pseudocompositional black-oil model] **90j:35128**
Gupta, Vijay K. *see* **Bhattacharya, Rabindra Nath; et al., 90f:35113**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al., 90j:35128**
Lobok, A. P. *see* **Nakonechnyĭ, A. G., 90c:35131**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al., 90j:35128**
Molchanov, S. A. (*with* Piterbarg, L. I.) Averaging in a problem of turbulent diffusion. (Russian) **90i:35151**
Nakonechnyĭ, A. G. (*with* Lobok, A. P.) Optimization of the domain of admissible perturbations in systems with distributed parameters when the measurements are inexact. (Russian) **90c:35131**
Piterbarg, L. I. *see* **Molchanov, S. A., 90i:35151**
Showalter, R. E. Implicit evolution equations. (*see* **90j:00016**)
— *see also* **Bosse, Marie-Pascale, 90m:35103**
Walker, Homer F. *see* **Bhattacharya, Rabindra Nath; et al., 90f:35113**

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Abdulkerimov, L. Sh. Determination of the right-hand side of an abstract parabolic equation with additional conditions. (Russian) **90g:35160**
Abergel, F. Existence and finite dimensionality of the global attractor for evolution equations on unbounded domains. **90m:58121**
Aliev, Dzh. S. A boundary value problem for the radiation transport equation in spectral lines under noncoherent and anisotropic scattering in a semi-infinite layer. **90j:82049**
Alikakos, Nicholas D. (*with* Bates, P. W.) Stabilization of solutions for a class of degenerate equations in divergence form in one space dimension. **90g:35018**
Ames, Karen A. (*with* Levine, Howard A.; Payne, L. E.) Improved continuous dependence results for a class of evolutionary equations. (*see* **90f:00004**)
Amick, C. J. (*with* Bona, J. L.; Schonbek, Maria) Decay of solutions of some nonlinear wave equations. **90k:35210**
Aperecido, J. B. (*with* Cotta, R. M.; Özişik, M. N.) Analytical solutions to two-dimensional diffusion type problems in irregular geometries. **90e:76120**
Arbogast, Todd Analysis of the simulation of single phase flow through a naturally fractured reservoir. **90e:76122**
Bakirov, I. M. (*with* Popkov, V. Yu.) Completely integrable systems of Brusselator type. **90h:58037**
Bates, P. W. *see* **Alikakos, Nicholas D., 90g:35018**
Bătineţu-Giurgiu, M. Control and stabilization for partial differential equations of parabolic type and construction of a state estimator. (*see* **90d:00043**)
Bensoussan, A. (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**
Blankenship, G. *see* **Bensoussan, A., 90i:93137**
Bona, J. L. *see* **Amick, C. J.; et al., 90k:35210**
Brewer, John W. The age-dependent eigenfunctions of certain Kolmogorov equations of engineering, economics, and biology. **90e:92059**
Bunkin, F. V. (*with* Galaktionov, V. A.; Kirichenko, N. A.; Kurdyumov, S. P.; Samarskiĭ, A. A.) Localization in a nonlinear problem of radiation-induced ignition. **90e:80015**
Butuzov, V. F. (*with* Kolomiĭtseva, E. A.) A smoothing procedure in a system of singularly perturbed equations of parabolic type. **90j:35052**
— *see also* **Vasil′eva, A. B., 90b:35024**
Cannon, John R. (*with* Lin, Yanping) Smooth solutions for an integro-differential equation of parabolic type. **90c:45012**
Chanov, A. V. *see* **Denisov, A. M., 90b:35239**
Conrad, F. (*with* Cournil, Michel) Free boundary problems in dissolution-growth processes. **90b:35247**
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Denisov, A. M. (*with* Chanov, A. V.) The problem of determining the kinetic coefficient for certain models of nonequilibrium sorption dynamics. **90b:35239**
DiBenedetto, E. Harnack estimates in certain function classes. **90k:35044**
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Dzhenaliev, M. T. Optimal control of linear loaded parabolic equations. **90g:49005**
Èĭdel′man, S. D. (*with* Drin′, Ya. M.) On a theory of systems of parabolic pseudodifferential equations. (Russian. English summary) **90j:35204**
Ewing, Richard E. *see* **Lin, Tao, 90m:35197**
Feng, De Xing *see* **Lin, You Hao; et al., 90m:92068**
Frolov, N. N. The structure of fundamental functions of infinite-dimensional differential operators. (Russian) **90j:35190**
Galaktionov, V. A. *see* **Bunkin, F. V.; et al., 90e:80015**
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Gorman, Arthur D. *see* **Holden, Karen L., 90c:86010**
Gorodtsov, V. A. Diffusive spreading of localized hydrodynamic perturbations under the action of random forces. **90a:76056**
Greiner, G. *see* **Waldstätter, R.; et al., 90a:92058**
Guo, Bao Zhu (*with* Zhu, Guang Tian) A linear population dynamics system with constant time delay. (Chinese. English summary) **90b:92049**
— (*with* Yuan, Jian Hua; Zhang, Sheng Hai) Stability and oscillations of a class of nonlinear population dynamics. (Chinese. English summary) **90f:92023**
— *see also* **Yu, Jing Yuan; et al., 90e:92076**
Hadeler, K. P. *see* **Waldstätter, R.; et al., 90a:92058**
Hess, Peter Stabilization of discrete strongly order-preserving semigroups and dynamical processes. **90h:47110**
Holden, Karen L. (*with* Gorman, Arthur D.) Caustics and the parabolic wave equation. **90c:86010**
Huang, Hou Ben *see* **Lin, You Hao; et al., 90m:92068**
Huang, Yin Xi (*with* So, Joseph W.-H.) An application of multiparameter bifurcation theory to equations of the chemostat. (*see* **90j:00016**)
Kawashima, Shuichi (*with* Shizuta, Yasushi) On the normal form of the symmetric hyperbolic-parabolic systems associated with the conservation laws. **90b:35149**
Kirichenko, N. A. *see* **Bunkin, F. V.; et al., 90e:80015**
Kolesov, A. Yu. Description of the phase instability of a system of harmonic oscillators that are weakly connected by diffusion. **90a:92062**

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Krempaský, J. (*with* Kvĕton, R.) Dynamics of two-component coupled systems. **90m:58153**

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Kvĕton, R. *see* **Krempaský, J., 90m:58153**

Leha, Gottlieb On diffusion semigroups generated by semi-elliptic differential operators in infinite dimensions. **90g:35158**

Leon, Jérôme Jp. On the nonlinear evolution equations having nonanalytic dispersion relations. **90a:35202**

Levine, Howard A. *see* **Ames, Karen A.; et al., (90f:00004)**

Li, Da Qian (*with* Tang, Qi) A class of boundary homogenization problems for parabolic equations. **90g:35014**

Li, Mao Xiang (*with* Xu, Jia Mo) A dual method for multiphase Stefan [problems]. **90m:35208**

Liang, Yuan Di Principal operators and principal normal operators of degree K. (Chinese. English summary) **90i:35011**

Lin, Tao (*with* Ewing, Richard E.) A note on source term identification for parabolic equations. **90m:35197**

Lin, Yanping *see* **Cannon, John R., 90c:45012**

Lin, You Hao (*with* Huang, Hou Ben; Feng, De Xing) Influence of environmental variation on population growth. **90m:92068**

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Lions, Jacques-Louis Problèmes aux limites non classiques pour équations d'évolution. (English summary) [Nonclassical boundary value problems for evolution equations] **90i:49024**

Luskin, Mitchell (*with* Sell, G. R.) Approximation theories for inertial manifolds. **90k:35032**

Lyberatos, Gerasimos *see* **Tsiligiannis, Christos A., 90d:34077**

Masoliver, Jaume (*with* Lindenberg, Katja; Weiss, George H.) A continuous-time generalization of the persistent random walk. **90e:82029**

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Mickens, R. E. Exact solutions to a population model: the logistic equation with advection. **90b:92053**

Mierczyński, Janusz (*with* Poláčik, Peter) Group actions on strongly monotone dynamical systems. **90k:58182**

Moll, Victor H. Computations for a critical surface. **90m:92011**

Nagasawa, Masao Transformations of diffusion and Schrödinger processes. **90g:60074**

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Poláčik, Peter Domains of attraction of equilibria and monotonicity properties of convergent trajectories in parabolic systems admitting strong comparison principle. **90i:58099**

— *see also* **Mierczyński, Janusz, 90k:58182**

Popkov, V. Yu. *see* **Bakirov, I. M., 90h:58037**

Ratyni, A. K. A problem of determining the matrix of coefficients multiplying the highest derivative of a parabolic equation. IV. (Russian) (*see* **90k:00017**)

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Seinfeld, John H. *see* **Yu, Wen Huan, 90d:35300**

Sell, G. R. *see* **Luskin, Mitchell, 90k:35032**

Semenov, D. V. Averaging parabolic differential equations with random coefficients. (Russian) **90f:35215**

Sforza, Daniela Parabolic integrodifferential equations with nonhomogeneous boundary conditions. **90d:45008**

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Stroock, Daniel W. A probabilistic approach to finding estimates for the heat kernel associated with a Hörmander form operator. **90i:60037**

Suzuki, Takashi Ultra-hyperbolic approach to some multi-dimensional inverse problems. **90d:35298**

Sviridyuk, G. A. Manifolds of solutions of a class of evolution and dynamic equations. **90c:35195**

Szigeti, F. Realization of transfer functions by equations of parabolic type. **90i:93018**

Tam, K. Kuen Criticality dependence on data and parameters for a problem in combustion theory, with temperature-dependent conductivity. **90g:80015**

— Traveling wave solutions for a combustion problem. **90m:80018**

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Tsiligiannis, Christos A. (*with* Lyberatos, Gerasimos) Normal forms, resonance and bifurcation analysis via the Carleman linearization. **90d:34077**

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Vasil'eva, A. B. (*with* Butuzov, V. F.) Boundary layer methods in singularly perturbed partial differential problems. (Russian) **90b:35024**

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Weiss, George H. *see* **Masoliver, Jaume; et al., 90e:82029**

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Yu, Jing Yuan (*with* Guo, Bao Zhu; Zhu, Guang Tian) Optimal control of a population evolution system. (Chinese. English summary) **90e:92076**

Yu, Wen Huan (*with* Seinfeld, John H.) Identification of parabolic distributed parameter systems by regularization with differential operators. **90d:35300**

Yuan, Jian Hua *see* **Guo, Bao Zhu; et al., 90f:92023**

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35Lxx Hyperbolic equations and systems [see also 58G16]

Amundson, Neal R. *see* **Rhee, Hyun Ku; et al., 90g:35086a** *and* **90g:35086b**

Aris, R. *see* **Rhee, Hyun Ku; et al., 90g:35086a** *and* **90g:35086b**

Bernardi, E. (*with* Bove, A.; Parenti, C.) On a class of hyperbolic operators with double characteristics. **90i:35152**

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Godin, Paul ★ Long time existence of solutions to Cauchy and mixed problems for second order quasilinear hyperbolic equations. **90f:35114**

Parenti, C. *see* **Bernardi, E.; et al., 90i:35152**

Rhee, Hyun Ku (*with* Aris, R.; Amundson, Neal R.) ★ First-order partial differential equations. Vol. I. **90g:35086a**

— (*with* Aris, R.; Amundson, Neal R.) ★ First-order partial differential equations. Vol. II. **90g:35086b**

35L05 Wave equation

Baez, John C. (*with* Zhou, Zheng-Fang) The global Goursat problem on $\mathbf{R}\times S^1$. **90f:35115**

Bazarbekov, A. B. Boundary value problems for the two-dimensional wave equation in a characteristic cone. **90m:35104**

Besieris, Ioannis M. (*with* Shaarawi, Amr M.; Ziolkowski, Richard W.) A bidirectional traveling plane wave representation of exact solutions of the scalar wave equation. **90d:35159**

Blokhin, A. M. (*with* Tkachëv, D. L.) A mixed problem for the wave equation in a domain with a corner (the scalar case). **90f:35116**

Cabannes, Henri Motion of a string vibrating against a rigid fixed obstacle. (*see* **90j:00023**)

Cazacu, Mariana (*with* Coca, Marilena) Applications des semigroupes d'opérateurs dans l'étude de l'équation d'une onde linéaire. [Applications of operator semigroups to the study of a linear wave equation] (*see* **90m:00044**)

Chinilov, A. Yu. Solution of the wave equation with an oblique derivative on the boundary. (Russian) **90i:35153**

Coca, Marilena *see* **Cazacu, Mariana, (90m:00044)**

Datta, Barun Kumar A new approach to the wave equation—an application of the decomposition method. **90e:35098**

Fedotov, A. P. *see* **Suchkov, M. V., (90d:00020)**

Ikawa, Mitsuru On the scattering matrix for two convex obstacles. **90h:35137**

— Sur la décroissance d'énergie locale du problème extérieur avec plusieurs ($n\geq 3$) obstacles strictement convexes. [Local energy decay of the exterior problem with several ($n\geq 3$) strictly convex obstacles] (*see* **90m:58220**)

Ikehata, Masaru (*with* Nakamura, Gen) Decaying and nondecaying properties of the local energy of an elastic wave outside an obstacle. **90a:35129**

Iraniparast, Nezam Green-Riemann functions for a class of hyperbolic focal point problems. **90b:35133**

Jung, Hartmut Zur Ausbreitung akustischer Wellen in inhomogenen Medien. [On the propagation of acoustic waves in inhomogeneous media] **90h:35138**

Kato, Keiichi Interaction of singularities of solutions to semilinear wave equation at the boundary. **90c:35132**

Kazarinoff, N. D. *see* **Liu, De Fu, 90b:35136**

Kingston, J. G. Spherical waves in odd-dimensional space. **90b:35134**

— One-way waves. **90b:35135**

Komornik, V. On the vibrations of solid balls. **90m:35105**

— On the vibrations of a square membrane. **90d:35160**

Lasiecka, I. (*with* Sokołowski, J.) Semidiscrete approximations of hyperbolic boundary value problems with nonhomogeneous Dirichlet boundary conditions. **90h:35139**

Liu, De Fu (*with* Kazarinoff, N. D.) Local energy decay for the wave equation on the exterior of two balls or convex bodies. **90b:35136**

Markovskiĭ, A. I. L_p-estimates for solutions of the wave equation. (Russian) **90m:35106**

Morgenröther, K. (*with* Werner, Peter) On the principles of limiting absorption and limit amplitude for a class of locally perturbed waveguides. I. Time-independent theory. **90b:35137**

— (*with* Werner, Peter) Zur Instabilität von Resonanzen in Wellenleitern. [On the instability of resonances in waveguides] **90b:35139**

— (*with* Werner, Peter) On the principles of limiting absorption and limit amplitude for a class of locally perturbed waveguides. II. Time-dependent theory. **90b:35138**

— (*with* Werner, Peter) On the instability of resonances in parallel-plane waveguides. **90d:35161**

Muraveĭ, L. A. The wave equation and the Helmholtz equation in an unbounded domain with a star-shaped boundary. (Russian) **90c:35133**

Muzichuk, O. A. A numerical solution of the axisymmetric Dirichlet problem for the wave equation. (Ukrainian. Russian summary) (Not in MR)

Nakamura, Gen *see* **Ikehata, Masaru, 90a:35129**

Orsingher, Enzo On the maximum of Gaussian Fourier sine series connected with random vibrations. **90b:35140**

Ostapenko, V. A. Initiating solution of the wave equation. (Russian) **90g:35087**

Persson, J. The regularization problem for the wave equation with measures as potentials and driving forces. **90f:35117**

Rampazzo, Franco Unified versions, based on distributions, of the linearized equations for an elastic string carrying a concentrated mass. (Italian summary) **90g:35088**

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Shevchenko, G. N. *see* **Starozhilova, O. V., (90i:00001)**

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Tkachëv, D. L. *see* **Blokhin, A. M., 90f:35116**
Triggiani, R. Wave equation on a bounded domain with boundary dissipation: an operator approach. **90d:35162**
Vichnevetsky, R. An analogy between dispersive wave propagation and special relativity. (French summary) **90d:35163**
Werner, Peter Boundary integral equations and instability of resonances (invited contribution). **90b:35141**
— *see also* **Morgenröther, K., 90b:35137; 90b:35138; 90b:35139** *and* **90d:35161**
Yamamoto, Kazuhiro Reflective elastic waves at the boundary as a propagation of singularities phenomenon. **90m:35107**
Zhamalov, R. S. Mixed problems for the wave equation defined in a corner with second-order boundary conditions. (Russian) (*see* **90h:00007**)
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Ziolkowski, Richard W. *see* **Besieris, Ioannis M.; et al., 90d:35159**

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Bamberger, Alain (*with* Guillot, J. C.; Joly, Patrick) Numerical diffraction by a uniform grid. **90b:65231**
Bardos, Claude (*with* Lebeau, Gilles; Rauch, Jeffrey) Pôles de la diffusion acoustique et singularités Gevrey 3. [Poles of acoustic scattering and Gevrey 3 singularities] (*see* **90m:58220**)
Barry, Ahmadov (*with* Bielak, J.; MacCamy, R. C.) On absorbing boundary conditions for wave propagation. **90e:73046**
Barton, Gabriel ★ Elements of Green's functions and propagation. **90f:35001**
Belishev, M. I. Wave bases in multidimensional inverse problems. (Russian) **90g:35161**
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Bogmér, A. On control problems. **90f:35028**
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— Necessary and sufficient conditions for the solvability of the Cauchy problem for some classes of nonlinear evolution equations. **90d:35056**
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Đinh Dung *see* **Trần Đứ'c Vân; et al., 90k:35011**
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Gunzburger, Max D. (*with* Nicolaides, R. A.) An algorithm for the boundary control of the wave equation. **90f:65102**
Hariharan, S. I. (*with* Ping, Yu) Linear and nonlinear acoustic wave propagation in the atmosphere. **90e:76114**
Heyman, Ehud Complex source pulsed beam representation of transient radiation. **90f:73024**
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— On the existence of the poles of the scattering matrix for several convex bodies. **90i:35211**
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Kemelov, D. U. Solvability of an inverse problem for the wave equation. (Russian) **90k:35263**
Khubiev, R. N. A boundary value problem with a free boundary for the one-dimensional wave equation. **90c:35204**
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Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] **90c:44003**
Li, Jian Hua[1] *see* **Xie, Gan Quan, 90c:35202**
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Malanov, S. B. (*with* Utkin, G. A.) Solution of a problem of the central impact by a point along an infinite string on an elastic foundation. (Russian) **90f:73018**
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(Morawetz, Cathleen S.) *see* **Lax, Peter D., 90k:35005**
Moses, H. E. (*with* Prosser, R. T.) Exact solutions of the three-dimensional scalar wave equation and Maxwell's equations from the approximate solutions in the wave zone through the use of the Radon transform. **90f:35186**
Nakamura, Shin-ichi Singularities of the scattering kernel for several convex obstacles. **90k:35198**
— Singularities of the scattering kernel for two convex obstacles. **90h:35185**
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Orsingher, Enzo Stochastic motions driven by wave equations. (Italian summary) **90g:35170**
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Stefanov, Plamen D. Uniqueness of the three-dimensional inverse scattering problem for time-dependent potentials. **90e:35168**
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Stuwe, Hans-Christof (*with* Werner, Peter) Remarks on the low-frequency asymptotics for the reduced wave equation and the Schrödinger equation in low-dimensional spaces. **90k:35041**
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— *see also* **Lasiecka, I., 90a:49039**
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Xie, Gan Quan (*with* Li, Jian Hua[1]) New iterative method for solving inverse scattering problem of 3-D wave equation. **90c:35202**
Yamaguchi, Masaru Almost periodic solutions of one-dimensional wave equations with periodic coefficients. **90j:35023**
Yamamoto, Kazuhiro Propagation of elastic waves concerned with seismology. (*see* **90j:00016**)
Zelenyak, T. I. Some properties of solutions of equations of small oscillations of a rotating fluid. (Russian) (*see* **90k:00021**)
Zuazua, Enrike Some remarks on the boundary stabilizability of the wave equation. **90i:35045**

35L10 Second-order equations, general

Avdonin, S. A. (*with* Ivanov, S. A.) A generating matrix function in problems of the control of the vibrations of connected strings. **90k:35145**
Berkaliev, Z. B. Hyperbolicity of stationary solutions of an equation of nonlinear viscoelasticity. (Russian) (*see* **90m:00032**)
Colombini, Ferruccio (*with* Spagnolo, Sergio) Some examples of hyperbolic equations without local solvability. **90d:35164**
Firmani, Bruno Uniqueness theorems for Goursat problems concerning the equations $u_{xy} = 0$. (Italian. English summary) **90e:35099**
Gromyak, M. I. On the construction of periodic solutions of wave equations of hyperbolic type. (Russian) **90g:35089**
Ivanov, S. A. *see* **Avdonin, S. A., 90k:35145**
Lerner, M. E. Two new qualitative properties of the Riemann function. **90k:35146**
Liu, Jia Quan Nonlinear vibration of a beam. **90m:35108**
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Bubnov, B. A. *see* **Anikonov, Yu. E., 90c:35196**
Carminati, J. (*with* McLenaghan, R. G.) An explicit determination of the space-times on which the conformally invariant scalar wave equation satisfies Huygens' principle. II. Petrov type *D* space-times. (French summary) **90e:58153a**
— (*with* McLenaghan, R. G.) An explicit determination of the space-times on which the conformally invariant scalar wave equation satisfies Huygens' principle. III. Petrov type III space-times. (French summary) **90e:58153b**
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Flyud, V. M. (*with* Tsymbal, Victor) A mixed problem for a hyperbolic equation with several small parameters. (Ukrainian. Russian summary) (Not in MR)
Guo, Bao Qi (*with* Yang, Guang) Inverse problem of the boundary value problem in a one-dimensional linear hyperbolic equation. (Not in MR)
Hrusa, W. J. (*with* Renardy, Michael) A model problem in one-dimensional viscoelasticity with a singular kernel. **90m:73027**
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— *see also* **Flyud, V. M.**, (Not in MR)

Winiarska, Teresa ★ Differential equations with parameter. **90e:35164**

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Yoshida, Norio On the zeros of solutions of hyperbolic equations of neutral type. **90k:35259**

Yu, Wen Huan On the existence and uniqueness of solutions to inverse problems for a class of hyperbolic equations. (Chinese) **90f:35206**

35L15 Second-order equations, initial value problems

Arosio, Alberto Hyperbolic equations in Banach scales. **90k:35147**

Baltag, Yu. I. (*with* Perzhan, A. V.) Estimates for the solutions of the Cauchy problem for hyperbolic one-dimensional equations in L_p spaces. (Russian) **90e:35100**

Bryukhanov, V. A. The characteristic Cauchy problem for a class of hyperbolic equations that degenerate on the manifold of initial data. (Russian) **90d:35166**

Gourdin, Daniel Problème de Cauchy faiblement hyperbolique. [The weakly hyperbolic Cauchy problem] **90a:35131**

Gupalo, G.-V. S. A Cauchy problem in a space of generalized functions. (Ukrainian. Russian summary) (Not in MR)

Jian, Su Wen The Cauchy problem for a class of weakly hyperbolic pseudodifferential equations with singular coefficients. (Chinese) **90j:35129**

Kapitanskiĭ, L. V. Estimates for norms in Besov and Lizorkin-Triebel spaces for solutions of second-order linear hyperbolic equations. (Russian. English summary) **90m:35109**

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— The Darboux problem for a three-dimensional equation in a bounded domain. (Russian) (*see* **90i:00001**)

Lukmanov, R. L. Approximation of the solution of the second initial-boundary value problem in a half-space for a hyperbolic equation. (Russian) **90d:35167**

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Burgmeier, P. *see* **Bergmann, J.; et al., 90d:93008**

Cicognani, M. Existence, uniqueness and propagation of the regularity of the solution of the Cauchy problem for some strictly hyperbolic operators with Lipschitz coefficients with respect to time. (Italian. English summary) **90e:35105**

DeWitt-Morette, Cécile (*with* Foong, See Kit) Path-integral solutions of wave equations with dissipation. **90h:81038**

Esham, Benjamin F., Jr. A hyperbolic singular perturbation of Burgers' equation. **90k:35223**

Foong, See Kit *see* **DeWitt-Morette, Cécile, 90h:81038**

Hörmander, Lars L^1, L^∞ estimates for the wave operator. **90e:35113**

Milani, Albert J. Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. **90f:35008**

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Ōkaji, Takashi The Cauchy problem for noneffectively hyperbolic differential operators and their product. **90m:35111**

Rubin, B. S. Multiplier operators and hypersingular integrals that are connected with Cauchy problems for the wave equation. **90m:42022**

Surguladze, T. A. The behavior, for large time values, of solutions of a one-dimensional hyperbolic equation with periodic coefficients. **90c:35027**

Tomaselli, Giuseppe Continuous dependence of the solution of the Darboux problem on the coefficients of the equation. (Italian. English summary) **90g:35015**

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35L20 Second-order equations, boundary value problems

Akhmedov, R. *see* **Aliev, N. A., 90e:35101**

Aliev, N. A. (*with* Akhmedov, R.) Investigation of solutions of boundary value problems for an equation of hyperbolic type on a domain, part of the boundary of which coincides with a characteristic. (Russian) **90e:35101**

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Dar'yalov, A. Yu. The problem Δ_2 for a hyperbolic-type equation of general type. (Russian) (*see* **90i:00001**)

Fushchich, V. I. (*with* Shtelen', V. M.) On approximate symmetry and approximate solutions of the nonlinear wave equation with a small parameter. **90i:35154**

Lasiecka, I. (*with* Sokołowski, J.) Regularity and strong convergence of a variational approximation to a nonhomogeneous Dirichlet hyperbolic boundary value problem. **90g:35091**

— (*with* Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with controls in the Dirichlet and Neumann boundary conditions: a nonconservative case. **90j:35130**

— (*with* Triggiani, R.) Regularity theory for a class of nonhomogeneous Euler-Bernoulli equations: a cosine operator approach. (Italian summary) **90e:35102**

Lerner, M. E. Solvability of a boundary value problem for hyperbolic equations in nonclassical domains. **90h:35140**

Mel'nik, O. Z. A nonlocal problem for a second-order hyperbolic equation that is degenerate on the line of definition of the initial data. (Russian. English summary) **90b:35142**

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Sikorav, Jacques Équation des ondes dans les ouverts non cylindriques: une approche globale. (English summary) [Wave equation in a noncylindrical domain: a global approach] **90g:35092**

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— C^∞ ill-posedness of the mixed problem for hyperbolic equations of second order. **90f:35120**

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Castro, Alfonso (*with* Unsurangsie, Sumalee) A semilinear wave equation with nonmonotone nonlinearity. **90c:35144**

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— Stabilization of wave and plate-like equations with nonlinear dissipation on the boundary. **90m:35035**

— (*with* Triggiani, R.) Trace regularity of the solutions of the wave equation with homogeneous Neumann boundary conditions and data supported away from the boundary. **90g:35026**

Lavrenyuk, S. P. Existence of a generalized solution of a mixed problem for a fourth-order equation. (Ukrainian. Russian summary) (Not in MR)

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Lukmanov, R. L. Approximation of the solution of the second initial-boundary value problem in a half-space for a hyperbolic equation. (Russian) **90d:35167**

Rasulov, M. L. ★ Применение вычетного метода к решению задач дифференциальных уравнений. (Russian) [Application of the residue method to solving problems of differential equations] **90i:35056**

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Vityuk, N. Ya. Solvability of a problem with operator coefficients. (Russian) **90e:35162**

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35L25 Higher-order equations, general

Corli, Andrea *see* **Rodino, Luigi, 90m:35110**

Graham, John W. (*with* Sarwal, S. N.) Solution to a class of hyperbolic equations employing state-space concepts. **90k:35150**

Jannelli, Enrico The energy method for a class of hyperbolic equations. (Italian summary) **90a:35133**

Rodino, Luigi (*with* Corli, Andrea) Gevrey solvability for hyperbolic operators with constant multiplicity. **90m:35110**

Roĭtberg, Ya. A. Hyperbolic problems in a complete scale of Sobolev-type spaces. (Russian) (*see* **90k:00021**)

Sarwal, S. N. *see* **Graham, John W., 90k:35150**

Tsuladze, R. M. Solvability of a characteristic problem for higher-order linear, nonstrictly hyperbolic equations. (Russian. English and Georgian summaries) **90g:35094**

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Hamaker, Charles A range problem for homogeneous, hyperbolic partial differential equations. **90e:35166**

Lesky, P., Jr. Resonance phenomena for a class of partial differential equations of higher order in cylindrical waveguides. **90h:35019**

Mizohata, S. On the Levi condition. **90j:35003**

Nishitani, Tatsuo Une classe d'opérateurs hyperboliques à caractéristiques multiples. (English summary) [A class of hyperbolic operators with multiple characteristics] **90c:35208**

Oganesyan, G. R. Weighted Cauchy and Dirichlet problems for some partial differential equations that are singular on the boundary. **90e:35039**

Tahara, Hidetoshi Singular hyperbolic systems. VI. Asymptotic analysis for Fuchsian hyperbolic equations in Gevrey classes. **90a:35031**

35L30 Higher-order equations, initial value problems

Bernardi, E. (*with* Bove, A.) Conditions de Levi pour le problème de Cauchy pour une classe d'équations hyperboliques à caractéristiques triples. [Levi conditions on the Cauchy problem for a class of hyperbolic equations with triple characteristics] **90b:35144b**

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Chen, Hua Well-posedness in Gevrey classes of the Cauchy problem for a class of totally characteristic hyperbolic operations. (Chinese) **90k:35151**

Itoh, Shigeharu The Cauchy problem for weakly hyperbolic equations in Gevrey classes. **90e:35103**

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Mizohata, S. On the Cauchy problem for hyperbolic equations in C^∞ and Gevrey classes. **90c:35135**

— Some remarks on the dependence domain for weakly hyperbolic equations with constant multiplicity. **90k:35152**

Nishitani, Tatsuo Systèmes effectivement hyperboliques. [Effectively hyperbolic systems] **90g:35095**

Ōkaji, Takashi The Cauchy problem for noneffectively hyperbolic differential operators and their product. **90m:35111**

Qian, Si Xin Quasifundamental solutions to a class of Cauchy problems of effectively hyperbolic operators. (Chinese. English summary) **90i:35155**

Roĭtberg, Ya. A. A boundary and a mixed problem for homogeneous hyperbolic equations in a complete scale of spaces of Sobolev type. **90f:35121**

Tarama, S. On the initial value problem for the weakly hyperbolic operators in the Gevrey classes. **90j:35131**

Uchiyama, Kôichi L^2-theory of singular perturbation of hyperbolic equations. I. A priori estimates with parameter ε. **90h:35141**

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35L35 Higher-order equations, boundary value problems

Baev, A. D. Energy estimates in a mixed problem for degenerate q-hyperbolic equations. (Russian) (*see* **90a:00007**)

Grigoliya, M. P. On the uniqueness of the solution of the characteristic problem for higher-order hyperbolic differential equations. **90a:35134**

Isakov, Victor Uniqueness of the continuation across a time-like hyperplane and related inverse problems for hyperbolic equations. **90h:35142**

Lodovici, C. Solution of a direct problem and an inverse problem for a vibrating beam. (Italian. English summary) **90m:35112**

Shibata, Yoshihiro On the Neumann problem for some linear hyperbolic systems of 2nd order with coefficients in Sobolev spaces. **90k:35153**

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Knykova, A. U. Asymptotic behavior of the eigenvalues of a boundary value problem with shift for a higher-order hyperbolic equation. (Russian) **90d:35226**

Krall, Allan M. Asymptotic stability of the Euler-Bernoulli beam with boundary control. **90e:73077**

Malovichko, V. A. A nonlocal boundary value problem for a system of fourth-order differential equations. (Russian. English summary) **90a:35050**

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35L40 First-order systems, general

Chen, Shu Xing The Goursat problem for a class of systems of hyperbolic equations. (Chinese) **90c:35136**

Iskenderov, N. Sh. The inverse scattering problem for a system of four first-order hyperbolic equations on the semi-axis. (Russian) **90a:35135**

Joseph, K. T. Boundary layers in approximate solutions. **90g:35096**

Karabaliev, R. K. (*with* Tazhimuratov, I.) Solutions of a hyperbolic system. (Russian) **90h:35143b**

Komatsu, Gen (*with* Nishitani, Tatsuo) Continuation of bicharacteristics for effectively hyperbolic operators. **90i:35156**

Krylov, A. V. A method of investigating weakly nonlinear interaction between one-dimensional waves. **90c:35137**

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35L55 Higher-order hyperbolic systems

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35L65 Conservation laws [see also 76–XX]

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Wang, Mao Hua[1] On analytical solutions of the equation $u_{tt} - cu_{xx} + au + bu^3 = 0$. **90f:35140**

Weng, Zhen Ling On uniqueness for hyperbolic partial differential equations $u_{xy} = f(x, y, u, u_x, u_y)$. (Chinese. English summary) **90j:35143**

Wiener, Joseph *see* **Chi, Henjin; et al., 90h:35158**

Williams, Mark Spreading of singularities at the boundary in semilinear hyperbolic mixed problems. II. Crossing and self-spreading. **90a:35155**

Xu, Chao Jiang Propagation de la régularité microlocale pour des problèmes de Dirichlet non linéaires d'ordre deux. [Propagation of microlocal regularity for second-order nonlinear Dirichlet problems] **90m:35135**

Yamazaki, Taeko On local solutions of some quasilinear degenerate hyperbolic equations. **90g:35109**

Zajączkowski, Wojciech M. Global existence of solutions of noncharacteristic mixed problems to nonlinear symmetric dissipative systems of the first order. **90f:35141**

Zhao, Yan Chun The third boundary value problems for one-dimensional quasilinear wave equations with boundary dissipation condition. (Chinese. English summary) **90f:35142**

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de Andrade, N. G. Weak periodic solutions of a nonlinear wave equation. (Portuguese summary) **90k:35017**

Antman, Stuart S. The paradoxical asymptotic status of massless springs. **90b:35194**

Axtell, John A numerical study of the derivatives of solutions of the wave equation with a singular forcing term at quenching. **90h:65158**

Babin, A. V. (*with* Vishik, M. I.) Attractors of parabolic and hyperbolic equations, the character of their compactness and attraction. **90c:35112**

Bahuguna, D. Application of Rothe's method to semilinear hyperbolic equations. **90k:34077**

Bellout, Hamid (*with* Friedman, Avner) Blow-up estimates for a nonlinear hyperbolic heat equation. **90c:35015**

Biler, Piotr A singular perturbation problem for nonlinear damped hyperbolic equations. **90c:35017**

Bondarev, B. V. (*with* Dzundza, A. I.) Quasilinear hyperbolic stochastic equations that are perturbed by small noise. (Russian) **90h:35259**

Bony, Jean-Michel Analyse microlocale et singularités non linéaires. [Microlocal analysis and nonlinear singularities] **90k:35008**

Borisov, A. B. Vortices in the sine-Gordon system and solution of the boundary value problem by the inverse scattering transform. **90k:35214**

Carmona, René (*with* Nualart, D.) Random nonlinear wave equations: smoothness of the solutions. **90f:60112**

Charalambakis, Nicolas Ch. Stabilité asymptotique lorsque $t \to \infty$ en thermoviscoélasticité et thermoplasticité. [Asymptotic stability as $t \to \infty$ in thermoviscoelasticity and thermoplasticity] **90k:35030**

Chemin, Jean-Yves Régularité de la solution d'un problème de Cauchy fortement non linéaire à données singulières en un point. (English summary) [Regularity of the solution of a strongly nonlinear Cauchy problem with singular data at a point] **90i:35068**

Chen, Yun Mei The life span of the solutions to Cauchy problems for nonlinear wave equations. **90e:35019**

Cheng, Jian Gang *see* **Wang, Hai Ming, 90g:35011**

Chinilov, A. Yu. *see* **Mikhaĭlov, Yu. Ya., 90e:76091**

Choquet-Bruhat, Yvonne Global existence theorems by the conformal method. **90g:58130**

Conrey, J. Brian (*with* Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. **90f:35119**

D'Ancona, Piero Gevrey well-posedness of an abstract Cauchy problem of weakly hyperbolic type. **90d:35285**

Delort, J.-M. Conormalité des ondes semi-linéaires le long des caustiques. [Conormality of semilinear waves along caustic surfaces] **90j:58149**

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Dunbar, S. R. A branching random evolution and a nonlinear hyperbolic equation. **90a:60183**

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Engler, Hans Boundary value problems for weak solutions of a class of quasilinear hyperbolic integrodifferential equations. **90m:73026**

Fehribach, Joseph D. (*with* Shearer, Michael) Approximately periodic solutions of the elastic string equations. **90i:35027**

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Gibbon, J. D. *see* **Dodd, R. K.; et al., 90k:35222**

Godin, Paul Long time behaviour of solutions to some nonlinear rotation invariant mixed problems. **90d:35028**

Grasselli, Maurizio Local existence and uniqueness for a quasilinear hyperbolic inverse problem. **90j:35194**

Greiner, G. Semilinear boundary conditions for evolution equations of hyperbolic type. **90i:34095**

(Gurarii, V. P.) *see* **Dodd, R. K.; et al., 90k:35222**

Gvazava, D. K. A general integral of a class of nonlinear equations and its applications. (Russian) **90c:35046**

Hadeler, K. P. Hyperbolic travelling fronts. **90j:35117**

Hirano, Norimichi On multiple periodic solutions for semilinear wave equations with forcing terms. **90j:35019**

van Horssen, W. T. An asymptotic theory for a class of initial-boundary value problems for weakly nonlinear wave equations with an application to a model of the galloping oscillations of overhead transmission lines. **90a:35046**

— Asymptotics for a system of nonlinearly coupled wave equations with an application to the galloping oscillations of overhead transmission lines. **90e:35030**

Howes, F. A. (*with* Whitaker, S.) Asymptotic stability in the presence of convection. **90e:35020**

Inerbaev, M. S. A difference scheme with an evolution derivative for multidimensional quasilinear equations of hyperbolic type. (Russian. Kazakh summary) **90e:65122**

Iwashita, Hirokazu (*with* Shibata, Yoshihiro) On the analyticity of spectral functions for some exterior boundary value problems. (Serbo-Croatian summary) **90k:35191**

Jorge, L. P. (*with* Tenenblat, Keti) Linear problems associated with evolution equations of the type $u_{tt} = F(u, u_x, u_{xx}, u_t)$. **90g:35141**

Kato, Keiichi Interaction of singularities of solutions to semilinear wave equation at the boundary. **90c:35132**

Khoma, G. P. *see* **Mitropol′skiĭ, Yu. A., 90a:35011**

Kitahara, Kiyoshi *see* **Nakada, Hiromitsu; et al., 90h:35029**

Klimenko, S. S. *see* **Vityuk, A. N., 90e:35175**

Koike, Minoru *see* **Nakada, Hiromitsu; et al., 90h:35029**

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Krejčí, Pavel Forced periodic vibrations of an elastic system with elastico-plastic damping. (Russian and Czech summaries) **90b:35018**

— A monotonicity method for solving hyperbolic problems with hysteresis. (Russian and Czech summaries) **90b:35019**

Lasiecka, I. Stability of wave equations with nonlinear damping in the Dirichlet and Neumann boundary conditions. **90c:35026**

Lidskiĭ, B. V. (*with* Shul′man, E. I.) Periodic solutions of the equation $u_{tt} - u_{xx} + u^3 = 0$. **90c:35012**

Lindquist, W. B. (*with* Maesumi, M.) The two-dimensional interaction of nonlinear hyperbolic waves. Examples from phase flow in porous media. **90k:76087**

Liu, Lin Qi Propagation of singularities for solution of semilinear wave equations. **90f:35003**

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Medeiros, L. A. *see* **Miranda, M. Milla, 90e:35026**

Mikhaĭlov, Yu. Ya. (*with* Chinilov, A. Yu.) Construction of the solution of the linear problem of shock wave stability. **90e:76091**

Milojević, P. S. Solvability of nonlinear operator equations with applications to hyperbolic equations. **90c:47114**

Miranda, M. Milla (*with* Medeiros, L. A.) Hidden regularity for semilinear hyperbolic partial differential equations. (French summary) **90e:35026**

Mitropol′skiĭ, Yu. A. (*with* Khoma, G. P.) Periodic solutions of second-order wave equations. IV. **90a:35011**

Morris, H. C. *see* **Dodd, R. K.; et al., 90k:35222**

Nakada, Hiromitsu (*with* Kitahara, Kiyoshi; Koike, Minoru; Koshigoe, Hideyuki; Takato, Setsuo) Asymptotic stability of the classical solution for a nonlinear wave equation. (Japanese. English summary) **90h:35029**

Nakao, Mitsuhiro A note on the energy decay for some nonlinear dissipative wave equations in one space dimension. **90f:35033**

Nualart, D. *see* **Carmona, René, 90f:60112**

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Pempinelli, F. The Shine-Gordon equation. **90m:35180**

Perla Menzala, Gustavo Decay on expanding spheres as $t \to +\infty$ of the solutions of semilinear wave equations. **90d:35031**

Plotnikov, P. I. (*with* Yungerman, L. N.) Periodic solutions of a weakly nonlinear wave equation with an irrational relation of period to interval length. **90d:35022**

— Existence of a countable set of periodic solutions of a problem on forced oscillations for a weakly nonlinear wave equation. **90d:35021**

Poorkarimi, H. Asymptotically periodic solutions for some hyperbolic equations. **90a:35012**

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Salvatore, A. Solutions of minimal period of a wave equation via a generalization of a Hofer's theorem. **90i:35029**

Scarpellini, B. (*with* Vuillermot, Pierre-A.) Smooth manifolds for semilinear wave equations on $\mathbf{R}^2$: on the existence of almost-periodic breathers. **90h:35022**

(Shabat, A. B.) *see* **Dodd, R. K.; et al., 90k:35222**

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Shibata, Yoshihiro *see* **Iwashita, Hirokazu, 90k:35191**

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Slavutskiĭ, S. L. Some solutions of a nonlinear Galilei-invariant analogue of the Lamé equation. (Russian) **90i:35262**

Smiley, Michael W. Breathers and forced oscillations of nonlinear wave equations on $\mathbf{R}^3$. **90f:35015**

— *see also* **Conrey, J. Brian, 90f:35119**

Sofonea, Mircea On existence and uniqueness of the solution of a dynamic elastic-visco-plastic problem. **90e:73060**

Spagnolo, Sergio Analytic regularity of the solutions of a semi-linear weakly hyperbolic equation. **90c:35032**

Štědrý, Milan Small time periodic solutions of fully nonlinear telegraph equations in more spatial dimensions. (French summary) **90h:35021**

Svīrchevs'ka, Zh. S. Existence of an almost periodic solution of a nonlinear wave equation. (Ukrainian. Russian summary) (Not in MR)

Takato, Setsuo *see* **Nakada, Hiromitsu; et al., 90h:35029**

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— Approximation of the solution of the Darboux problem for the equation $\partial^2 z/\partial x \partial y \in F(x, y, z)$. **90f:35218**

Vishik, M. I. *see* **Babin, A. V., 90c:35112**

Vityuk, A. N. (*with* Klimenko, S. S.) The averaging of partial differential inclusions with a measurable right-hand side. (Russian) **90e:35175**

Vuillermot, Pierre-A. Variétés lisses associées à certains systèmes dynamiques et solitons périodiques pour les équations de Klein-Gordon non linéaires sur $\mathbf{R}^2$. (English summary) [Smooth manifolds for certain dynamical systems and periodic solitons for nonlinear Klein-Gordon equations in $\mathbf{R}^2$] **90e:35157**

— *see also* **Scarpellini, B., 90h:35022**

Wang, Bao Qin On "hyperbolic" SG equations. (Chinese) **90j:35183**

Wang, Hai Ming (*with* Cheng, Jian Gang) Periodic solutions to nonlinear wave equations with a dissipation term. (Chinese. English summary) **90g:35011**

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Wei, Guang Zu (*with* Yuan, Zhong Xin) Initial-boundary value problems for nonlinear Euler-Poisson-Darboux equations. (Chinese) **90d:35236**

Whitaker, S. *see* **Howes, F. A., 90e:35020**

Yuan, Zhong Xin *see* **Wei, Guang Zu, 90d:35236**

Yungerman, L. N. *see* **Plotnikov, P. I., 90d:35022**

Zhang, Jian Blow-up of solutions of nonlinear pseudo-hyperbolic equations of generalized nerve conduction type. **90m:35037**

Zhestkov, S. V. Doubly periodic solutions of quasilinear hyperbolic partial differential systems. (Russian) **90b:35021**

Zuazua, Enrike Exponential decay for semilinear distributed systems with localized damping. (*see* **90m:93004**)

35L75 Higher (> 2) order nonlinear equations and systems

Borzymowski, Andrzej (*with* Michalski, Marek W.) A nonlinear boundary value problem for a system of hyperbolic partial differential equations. **90h:35167**

Cassis, B. Compensated compactness applied to a singular perturbed fourth order p.d.e. **90h:35168**

Chemin, Jean-Yves Interaction contrôlée dans les équations aux dérivées partielles non linéaires. (English summary) [Controlled interaction in nonlinear partial differential equations] **90j:35144**

Georgiev, Vladimir L'existence des solutions globales pour des systèmes non linéaires avec champs massifs et sans masse. (English summary) [Existence of global solutions for nonlinear systems with massive and massless fields] **90g:35110**

Marshall, Bernard The regularity of solutions of nonlinear wave equations. **90d:35190**

Meredov, M. (*with* Mukyev, B.) Uniqueness of the solution of the Goursat-Dirichlet problem for some classes of third-order equations of hyperbolic type. (Russian) (*see* **90d:00022**)

Michalski, Marek W. *see* **Borzymowski, Andrzej, 90h:35167**

Mukyev, B. *see* **Meredov, M., (90d:00022)**

Pachpatte, B. G. Existence and uniqueness of solutions of higher order hyperbolic partial differential equations. **90k:35178**

Stahel, Andreas Hyperbolic initial-boundary value problems with nonlinear boundary conditions. **90d:35191**

Sun, He Sheng Hyperbolic systems and parabolic systems having strongly nonlinear terms. (Chinese) **90c:35148**

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Artyushin, A. N. An existence theorem for a third-order equation. (Russian) **90g:35036**

Chueshov, I. D. Asymptotic behavior of solutions of a problem on aero-elastic oscillations of a shell in the hypersonic limit. (Russian) **90i:73062**

Friedman, Avner Blow-up of solutions of nonlinear evolution equations. **90g:35019**

Gourdin, Daniel Problèmes de Cauchy hyperboliques nonlinéaires. (English summary) [Nonlinear hyperbolic Cauchy problems] **90e:35111**

— Une classe d'opérateurs faiblement hyperboliques non linéaires. (English summary) [A class of weakly hyperbolic nonlinear operators] **90e:35112**

Grigoliya, M. P. On the uniqueness of the solution of the characteristic problem for higher-order hyperbolic differential equations. **90a:35134**

Ivakhnenko, L. Ya. (*with* Lavrenyuk, S. P.) Existence of a generalized solution of a mixed problem for equations of plate-oscillation type. (Ukrainian. Russian summary) (Not in MR)

Krejči, Pavel Periodic oscillations of an elastoplastic rod. (Russian) (*see* **90k:00021**)

Lar'kin, N. A. Short-wave equations in unbounded domains. (Russian) (*see* **89j:35005**)

Lavrenyuk, S. P. *see* **Ivakhnenko, L. Ya.**, (Not in MR)

Sakamoto, Reiko Local existence theorems and blow-up of solutions for quasi-linear hyperbolic Cauchy problems in a domain with characteristic boundary generated by initial data. **90m:35129**

Sun, He Sheng A nonlinear pseudohyperbolic system. **90j:35147**

35L80 Equations and systems of degenerate type

Altin, Abdullah (*with* Young, Eutiquio C.) Kelvin principle for a class of singular equations. **90j:35145**

Amanov, D. A boundary value problem for a hyperbolic equation that is degenerate in the interior of the domain. (Russian) **90k:35179**

Berdyshev, A. S. A boundary value problem for a hyperbolic equation with singular coefficients that degenerates inside the domain. (Russian) **90b:35156**

Biyarov, B. N. (*with* Kal'menov, T. Sh.) A nonlocal Volterra problem for a hyperbolic equation. (Russian. Kazakh summary) **90d:35192**

Bochkarev, A. P. A problem with shift for the Karol' equation of hyperbolic type. (Russian) (*see* **90i:00001**)

Ėrgashev, T. G. *see* **Nagornyĭ, A. M., 90a:35157**

Kal'menov, T. Sh. (*with* Orazov, I. O.) The Darboux problem for a degenerate hyperbolic equation. (Russian) **90a:35156**

— *see also* **Biyarov, B. N., 90d:35192**

Kannai, Yakar (*with* Kiro, Shmuel) The initial value problem for a degenerate wave equation. **90d:35193**

Kapustin, N. Yu. A new approach to studying boundary value problems with generalized L_2 solutions. **90f:35143**

— On the theory of boundary value problems with boundary functions in L_2. **90m:35136**

Kharibegashvili, S. S. Solvability of a characteristic problem for second-order degenerate hyperbolic systems. **90d:35194**

Khe Kan Cher Some solutions of the homogeneous Darboux problem for a degenerate hyperbolic equation. (Russian) **90b:35157**

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Kobelev, I. A. Generalization of the Goursat problem for a hyperbolic equation with two lines of degeneracy. (Russian) **90c:35149**

Kuz'min, A. T. (*with* Volkodavov, V. F.) The problem Δ_2 for an equation of hyperbolic type in a four-dimensional space. (Russian) (*see* **90i:00001**)

Nagornyĭ, A. M. (*with* Ėrgashev, T. G.) A boundary value problem for a hyperbolic equation of the second kind that degenerates inside the domain. (Russian) **90a:35157**

Orazov, I. O. *see* **Kal'menov, T. Sh., 90a:35156**

Popivanov, N. I. (*with* Schneider, Manfred Friedrich) The Darboux-problem in $\mathbf{R}^3$ for a class of degenerated hyperbolic equations. **90b:35158**

Radzhabov, N. R. A second-order equation of hyperbolic type with two singular lines. **90b:35159**

— A class of second-order linear hyperbolic equations with two supersingular lines. (Russian. Tajiki summary) **90i:35178**

— A class of second-order linear hyperbolic equations with a supersingular point. (Russian. Tajiki summary) **90i:35179**

— On the theory of second-order linear hyperbolic equations with an interior supersingular line. (Russian. Tajiki summary) **90i:35180**

Sakamoto, Reiko Hyperbolic Cauchy problems in a region with a characteristic boundary of full multiplicity. **90i:35181**

Schneider, Manfred Friedrich Über das Maximum Prinzip und a priori Abschätzungen für ausgeartete hyperbolische Gleichungen 1. und 2. Art. (English summary) [On the maximum principle and a priori estimates for degenerate hyperbolic equations of the first and second kind] **90b:35160**

— *see also* **Popivanov, N. I., 90b:35158**

Volkodavov, V. F. *see* **Kuz'min, A. T., (90i:00001)**

Young, Eutiquio C. *see* **Altin, Abdullah, 90j:35145**

Zhemukhov, Kh. K. A boundary value problem with a shift for a fourth-order degenerate quasilinear hyperbolic equation. (Russian) **90i:35182**

— Boundary value problems with a shift for a fourth-order degenerate hyperbolic equation. **90d:35195**

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Andreev, A. A. (*with* Senitskiĭ, A. Yu.) A system of Euler-Poisson-Darboux equations. I. (Russian) (*see* **90i:00001**)
Bernardi, E. (*with* Bove, A.) Conditions de Levi pour le problème de Cauchy pour une classe d'équations hyperboliques à caractéristiques triples. [Levi conditions on the Cauchy problem for a class of hyperbolic equations with triple characteristics] **90b:35144b**
— (*with* Bove, A.) The Cauchy problem for a class of hyperbolic operators with triple characteristics. **90b:35144a**
Bove, A. *see* **Bernardi, E., 90b:35144a** *and* **90b:35144b**
Dai, Zheng De *see* **Yang, Guang Jun, 90c:35002**
Malovichko, V. A. Boundary value problems for degenerate and nondegenerate hyperbolic systems. **90i:35157**
Marchesin, Dan (*with* Medeiros, Heloisa B.) A note on the stability of eigenvalue degeneracy in nonlinear conservation laws of multiphase flow. **90k:35169**
Medeiros, Heloisa B. *see* **Marchesin, Dan, 90k:35169**
Mirzoev, A. Kh. Integral representations of solutions for a system of first-order equations of hyperbolic type with a singular line. (Russian. Tajiki summary) **90i:35058**
Semerdzhieva, R. I. A difference method for solving a class of hyperbolic equations with degenerate order. **90j:65123**
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Taniguchi, Masaru A systematization of the L^2-well-posed mixed problem and its applications to the mixed problem for weakly hyperbolic equations of second order. **90g:35093**
Tsymbal, Victor An angular boundary layer in mixed singularly perturbed problems for hyperbolic equations. (Ukrainian. Russian summary) (Not in MR)
Xu, Hong Lian On the singular Cauchy problems for a class of generalized Euler-Poisson-Darboux equations. (Chinese. English summary) **90i:35214**
Yamazaki, Taeko On local solutions of some quasilinear degenerate hyperbolic equations. **90g:35109**
Yang, Guang Jun (*with* Dai, Zheng De) Uniqueness of nonflat solution for a class of Fuchsian equations with complex coefficients. **90c:35002**

35L85 Unilateral problems; variational inequalities [see also 35R35, 49A29]

Citrini, C. (*with* Marchionna, C.) Some unilateral problems for the vibrating string equation. **90c:35150**
Marchionna, C. *see* **Citrini, C., 90c:35150**

35L99 None of the above, but in this section

Artola, Miguel *see* **Majda, Andrew J., 90c:35152**
Atamanov, È. R. On the uniqueness of the solution of interior problems for a pseudohyperbolic equation. (Russian) **90h:35169**
Burskiĭ, V. P. Remarks on the Dirichlet problem for an ultrahyperbolic equation and on integral geometry on the sphere. **90d:35196**
Cağliyan, Mehmet (*with* Çelebi, A. Okay) A singular initial value problem for an ultrahyperbolic equation. (Serbo-Croatian summary) **90c:35151**
Çelebi, A. Okay *see* **Cağliyan, Mehmet, 90c:35151**
Engler, Hans On quasilinear hyperbolic integrodifferential equations in unbounded domains. **90j:35146**
Grigoryan, A. S. (*with* Nersesyan, A. B.) A problem of Cauchy-Goursat and Cauchy-Darboux type for a model weakly hyperbolic equation. (Russian) **90i:35183**
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Lagnese, John E. Asymptotic energy estimates for Kirchhoff plates subject to weak viscoelastic damping. **90k:35180**
Majda, Andrew J. (*with* Artola, Miguel) Nonlinear geometric optics for hyperbolic mixed problems. **90c:35152**
Mitropol′skiĭ, Yu. A. (*with* Khoma, G. P.) Efficiency of applying asymptotic methods to quasiwave equations of hyperbolic type. (Russian) **90m:35137**
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Orlovskiĭ, D. G. A mixed problem for hyperbolic systems. (Russian) (*see* **90d:00020**)
Rogovchenko, S. P. Application of an asymptotic method to the investigation of a hyperbolic sampled-data system. **90a:35158**
Sun, He Sheng A nonlinear pseudohyperbolic system. **90j:35147**
Trangenstein, John A. Three-phase flow with gravity. **90k:35181**
Trione, Susana Elena On Marcel Riesz's ultrahyperbolic kernel. **90a:35159**

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Akramov, T. A. A hyperbolic problem that describes a chemical reactor. (Russian) **90e:80019**
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Barannik, L. F. (*with* Lagno, V. I.; Fushchich, V. I.) Subalgebras of the Poincaré algebra AP(2, 3) and the symmetry reduction of the nonlinear ultrahyperbolic d'Alembert equation. II. **90f:58178**
Bardos, Claude (*with* Lebeau, Gilles; Rauch, Jeffrey) Un exemple d'utilisation des notions de propagation pour le contrôle et la stabilisation de problèmes hyperboliques. [An example of the use of the notions of propagation for the control and stabilization of hyperbolic problems] **90h:35030**
Belishev, M. I. (*with* Kachalov, A. P.) Methods in the theory of boundary control in an inverse spectral problem for an inhomogeneous string. (Russian. English summary) **90m:34129**
Berglez, P. Determinants for formally hyperbolic differential equations. **90j:35055**
Biler, Piotr Regular decay of solutions of strongly damped nonlinear hyperbolic equations. **90j:34090**
Bourdel, F. (*with* Delorme, Ph.; Mazet, P.-A.) Convexity in hyperbolic problems. Application to a discontinuous Galerkin method for the resolution of the polydimensional Euler equations. **90b:65176**
Chalindar, Bruno *see* **Bamberger, Alain; et al., 90a:73049**
Chang, Sung Kag Galerkin approximations of Riccati operators arising in the boundary controls for hyperbolic systems. **90b:49046**
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D'Acunto, B. (*with* D'Anna, A.) A free boundary problem in the unilateral dynamics of a linear viscoelastic system. **90f:35210**
D'Anna, A. *see* **D'Acunto, B., 90f:35210**
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Li, Hui Ping Integral representation of the canonical solution of the $\overline{\partial}$-equation. (Chinese) **90m:32011**

Lu, Qi Keng Green form to intrinsic metric of a ball. **90h:32041**

Lupacciolu, Guido Some remarks on the hypoellipticity of the $\overline{\partial}$-problem and the local extendibility of CR-functions. (Italian summary) **90k:32051**

Ma, Lan ★ Abschätzungen von Lösungen der $\bar{\partial}$-Gleichung auf streng q-konvexen Mengen mit nicht glattem Rand. (German) [Estimates of solutions of the $\overline{\partial}$-equation on strongly q-convex sets with nonsmooth boundary] **90k:32060**

Nacinovich, M. On strict Levi q-convexity and q-concavity on domains with piecewise smooth boundaries. **90b:32033**

Nagel, A. (*with* Rosay, J.-P.; Stein, E. M.; Wainger, S.) Estimates for the Bergman and Szegő kernels in $\mathbf{C}^2$. **90g:32028**

— (*with* Rosay, J.-P.) Nonexistence of homotopy formula for $(0,1)$ forms on hypersurfaces in $\mathbf{C}^3$. **90m:32040**

Rosay, J.-P. *see* **Nagel, A.; et al., 90g:32028** *and* **90m:32040**

Stein, E. M. *see* **Nagel, A.; et al., 90g:32028**

Straube, Emil J. *see* **Boas, Harold P., 90k:32057**

Strauß, Albrecht ★ Integralformeln und a priori-Abschätzungen für das $\overline{\partial}$-Neumann-Problem. (German) [Integral formulas and a priori estimates for the $\overline{\partial}$-Neumann problem] **90a:32022**

Trèves, F. Homotopy formulas in the tangential Cauchy-Riemann complex. **90m:32012**

Wainger, S. *see* **Nagel, A.; et al., 90g:32028**

Webster, Sidney On the local solution of the tangential Cauchy-Riemann equations. (French summary) **90h:32042a**

— On the proof of Kuranishi's embedding theorem. (French summary) **90h:32042b**

35N99 None of the above, but in this section

Items with secondary classifications in 35N99

Isakov, Victor Uniqueness for inverse parabolic problems with a lateral overdetermination. **90m:35198a**

— Correction to: "Uniqueness for inverse parabolic problems with a lateral overdetermination". **90m:35198b**

35Pxx Spectral theory and eigenvalue problems [see also 47Axx, 47Bxx, 47F05]

35P05 General spectral theory

Amerova, E. I. (*with* Nizhnik, L. P.) Spectral analysis of the two-dimensional Dirac operator. (Russian) **90g:35119**

Belishev, M. I. (*with* Kurylëv, Ya. V.) An inverse spectral problem for the scattering of plane waves in a half-space with local inhomogeneity. (Russian) **90h:35178**

Ben-Artzi, Matania (*with* Dermenjian, Y.; Guillot, J. C.) Acoustic waves in perturbed stratified fluids: a spectral theory. **90i:35194**

Brown, K. J. (*with* Cosner, Chris; Fleckinger, Jacqueline Pellé) Principal eigenvalues for problems with indefinite weight function on $\mathbf{R}^n$. **90m:35140**

Cantrell, Robert Stephen (*with* Cosner, Chris) On eigenfunctions with sign definite components in weakly coupled linear elliptic systems. **90j:35149**

Chen, Zu Chi (*with* Qian, Chun Lin) Estimates for the discrete spectrum of a quadratic form in the Laplacian operator. (Chinese. English summary) **90k:35189**

Cosner, Chris *see* **Cantrell, Robert Stephen, 90j:35149** *and* **Brown, K. J.; et al., 90m:35140**

Derezínski, Jan Exponential bounds in cones for eigenfunctions of N-body Schrödinger operators. **90f:35150**

Derguzov, V. I. An eigensubspace of a two-dimensional periodic lightguide. **90b:35167**

Dermenjian, Y. *see* **Ben-Artzi, Matania; et al., 90i:35194**

Dufresnoy, Alain Moyenne de formes quadratiques positives et champs magnétiques. [Mean value of positive quadratic forms and magnetic fields] (*see* **90m:58219**)

Èĭvazov, È. Kh. Absence of positive eigenvalues of the Schrödinger operator with generalized potentials. (Russian) **90e:35121**

Esposito, Vincenzo (*with* Miserendino, Doriano) The Poisson kernel of a Grushin operator in a half-space. (Italian. English summary) **90h:35179**

Fleckinger, Jacqueline Pellé *see* **Brown, K. J.; et al., 90m:35140**

Gérard, C. Théorie des résonances pour des opérateurs de Schrödinger périodiques. [Resonance theory for periodic Schrödinger operators] (*see* **90m:58223**)

Guillot, J. C. *see* **Ben-Artzi, Matania; et al., 90i:35194**

Gurarie, D. L^p and spectral theory for a class of global elliptic operators. **90d:35214**

Helffer, B. (*with* Mohamed, Abdérémane) Caractérisation du spectre essentiel de l'opérateur de Schrödinger avec un champ magnétique. (English summary) [Characterization of the essential spectrum of the Schrödinger operator with a magnetic field] **90d:35215**

Hislop, P. D. (*with* Nakamura, Shu^1) Semiclassical resolvent estimates. (French summary) **90k:35190**

Il'in, V. A. (*with* Joó, István) An inequality of Hausdorff-Young type for eigenfunctions of the Laplace operator in a three-dimensional domain. (Russian) **90j:35150**

Iwashita, Hirokazu Spectral theory for symmetric systems in an exterior domain. **90f:35151**

— (*with* Shibata, Yoshihiro) On the analyticity of spectral functions for some exterior boundary value problems. (Serbo-Croatian summary) **90k:35191**

— Spectral theory for symmetric systems in an exterior domain. II. **90f:35152**

Joó, István *see* **Il'in, V. A., 90j:35150**

Kozlov, Vladimir Arkad'evich On the spectrum of an operator pencil generated by the Dirichlet problem for an elliptic equation at a corner point. (Russian) **90f:35153**

Kurylëv, Ya. V. *see* **Belishev, M. I., 90h:35178**

Maksudov, F. G. A condition of absence of discrete spectrum of radial Schrödinger operator. **90f:35154**

Miserendino, Doriano *see* **Esposito, Vincenzo, 90h:35179**

Mohamed, Abdérémane Quelques remarques sur le spectre de l'opérateur de Schrödinger avec un champ magnétique. [Some remarks on the spectrum of the Schrödinger operator with a magnetic field] **90d:35216**

— *see also* **Helffer, B., 90d:35215**

Moiseev, E. I. Disposition of the spectrum of the Tricomi problem for the Lavrent'ev-Bitsadze equation. **90d:35217**

Nakamura, Shu^1 A note on the absence of resonances for Schrödinger operators. **90a:35173**

— *see also* **Hislop, P. D., 90k:35190**

Nizhnik, L. P. *see* **Amerova, E. I., 90g:35119**

Pang, M. M. H. L^1 properties of two classes of singular second order elliptic operators. **90b:35168**

Pavlov, B. S. Boundary conditions on thin manifolds and the semiboundedness of the three-body Schrödinger operator with point potential. **90g:35120**

Pospelov, V. L. On the spectrum of a problem arising in magnetohydrodynamics. (Russian) **90h:35180**

Qian, Chun Lin *see* **Chen, Zu Chi, 90k:35189**

Sanchez-Hubert, J. Perturbation des valeurs propres pour des systèmes avec masse concentrée. (English summary) [Perturbation of the eigenvalues for systems with concentrated mass] **90j:35151**

Schröder, Manfred Spectral properties of the Laplacian with attractive boundary conditions. (*see* **90d:81038**)

Shibata, Yoshihiro *see* **Iwashita, Hirokazu, 90k:35191**

Sohrab, Houshang H. Essential spectra of a class of elliptic operators. **90h:35181**

Tamura, Hideo Resolvent estimates at low frequencies and limiting amplitude principle for acoustic propagators. **90i:35195**

Yajima, Kenji Rate of decay at high energy of local spectral projections associated with Schrödinger operators. **90g:35121**

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Akopyan, G. S. (*with* Aleksandryan, R. A.) Construction of generalized eigenfunctions for a linear pencil of differential operators in a space of vector functions. (Russian) **90m:47067**

Aleksandryan, R. A. *see* **Akopyan, G. S., 90m:47067**

Ali Mehmeti, Felix Regular solutions of transmission and interaction problems for wave equations. **90i:35168**

Baez, John C. (*with* Zhou, Zheng-Fang) The global Goursat problem on $\mathbf{R} \times S^1$. **90f:35115**

Baĭkuziev, K. B. Estimates for the eigenfunctions of degenerate operators. **90c:34025**

Beekmann, Brigitte On the spectrum of Riemannian G-manifolds. **90k:58225**

Belishev, M. I. On a problem of M. Kac on the reconstruction of the shape of a domain from the spectrum of the Dirichlet problem. (Russian. English summary) **90c:35197**

Bérard, Pierre Volume des ensembles nodaux des fonctions propres du laplacien. [Volume of the nodal sets of eigenfunctions of the Laplacian] **90m:58210**

Bochenek, Jan On some linear eigenvalue problems for strongly elliptic systems with an indefinite weight matrix function. **90k:35089**

Bottaro, Gianfranco (*with* Oppezzi, Pirro) Variational problems and convergence on unbounded domains. (Italian. English summary) **90d:35067**

Brenner, Terence On the spectra of hypoelliptic operators in $\mathbf{R}^2$. **90a:35053**

Colin de Verdière, Yves Opérateur de Schrödinger pour un champ magnétique constant sur l'espace euclidien à deux dimensions. [The Schrödinger operator for a constant magnetic field on two-dimensional Euclidean space] (*see* **90j:58001**)

— L'asymptotique de Weyl pour les bouteilles magnétiques. [Weyl asymptotics for magnetic bottles] (*see* **90m:58220**)

Conrey, J. Brian (*with* Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. **90f:35119**

Douglas, R. G. Elliptic invariants for differential operators. **90b:58251**

Dubrovskiĭ, V. V. *see* **Sadovnichiĭ, V. A.^{1}; et al., 90m:47040**

Durdyev, N. T. A model eigenvalue problem from the theory of equations of mixed type. (Russian) (*see* **90d:00022**)

Figotin, A. L. *see* **Pastur, L. A., 90a:47128**

Firsova, N. E. (*with* Sherstyuk, A. I.) Some properties of generalized spectral problems connected with the Schrödinger equation. **90i:81030**

Gadzhiev, G. A. On the multiparameter spectral theory of linear and nonlinear differential operators. (Russian) **90d:35283**

Gröger, Konrad (*with* Rehberg, Joachim) Resolvent estimates in $W^{-1,p}$ for second order elliptic differential operators in case of mixed boundary conditions. **90h:35074**

Hassan, A. A. M. *see* **Zayed, E. M. E., 90h:35249**

Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. **90f:47024**

Inin, I. O. A uniqueness theorem for the solution of an inverse problem in spectral theory for a certain class of elliptic operators. (Russian) (*see* **90m:00040**)

Kappeler, Thomas On isospectral potentials on a discrete lattice. II. **90b:39010b**

— On isospectral periodic potentials on a discrete lattice. I. **90b:39010a**

— Isospectral potentials on a discrete lattice. III. **90b:39010c**

Kauffman, Robert M. On essential selfadjointness of partial differential operators with positive coefficients. **90a:47122**

Kirsch, Werner The stability of the density of states of Schrödinger operator under very small perturbations. **90f:47071**

Kopachevskiĭ, N. D. (*with* Temnov, A. N.) Oscillations of an ideal stratified fluid in a cylindrical basin with variable frequency of buoyancy. **90a:76151**

Korenblit, S. È. Partial Jost determinants and spectral density of the resolvent in momentum transfer. **90k:81267**

Kozlov, Vladimir Arkad'evich (*with* Maz'ya, V. G.) Spectral properties of operator pencils generated by elliptic boundary value problems in a cone. **90a:47125**

Kurasov, P. B. (*with* Pavlov, B. S.) An electron in a homogeneous crystal of point-like atoms with internal structure. II. **90d:81035**

Lapidus, Michel L. Inverse spectral problems for elliptic operators on fractal drums and the Weyl-Berry conjecture. (*see* **90j:00016**)

Limaye, Balmohan V. ★ Spectral perturbation and approximation with numerical experiments. **90a:47051**

Lin, Xiao-Biao *see* **Neves, Aloisio Freiria, 90d:47051**

Lindqvist, Peter On the equation $\operatorname{div}(|\nabla u|^{p-2}\nabla u) + \lambda |u|^{p-2}u = 0$. **90h:35088**

Malev, A. V. On the calculation of spectral characteristics of open optic resonators. (Russian. English summary) **90g:78013**

Maz'ya, V. G. *see* **Kozlov, Vladimir Arkad'evich, 90a:47125**

Mirzoev, G. G. Separation of the spectral parameters of a multiparameter eigenvalue problem. (Russian) **90e:47017**

Moiseev, E. I. ★ Уравнения смешанного типа со спектральным параметром. (Russian) [Equations of mixed type with a spectral parameter] **90e:35120**

Mokeĭchev, V. S. Reconstruction of coefficients in linear mathematical models, and nonlinear boundary problems. (Russian) **90j:35197**

Moscovici, Henri (*with* Stanton, Robert J.) Eta invariants of Dirac operators on locally symmetric manifolds. **90b:58252**

Muratbekov, M. B. The spectrum of a class of nonuniformly degenerate elliptic operators. (Russian) (*see* **90h:00003**)

Nadirashvili, N. S. The length of the nodal curve of an eigenfunction of the Laplace operator. **90e:58161**

Nagornyĭ, A. V. *see* **Sadovnichiĭ, V. A.^{1}; et al., 90m:47040**

Natanzon, S. M. Prymians of real curves and their applications to the effectivization of Schrödinger operators. **90i:14031**

Neves, Aloisio Freiria (*with* Lin, Xiao-Biao) A multiplicity theorem for hyperbolic systems. **90d:47051**

Novikov, R. G. A multidimensional inverse spectral problem for the equation $-\Delta\psi + (v(x) - Eu(x))\psi = 0$. **90h:35243**

Oppezzi, Pirro *see* **Bottaro, Gianfranco, 90d:35067**

Pastur, L. A. (*with* Figotin, A. L.) An example of multidimensional almost periodic operators whose point and continuous spectra intersect. (Russian) **90a:47128**

Pavlov, B. S. An electron in a homogeneous crystal of point-like atoms with internal structure. I. (Russian. English summary) **90d:81034**

— *see also* **Kurasov, P. B., 90d:81035**

Rehberg, Joachim *see* **Gröger, Konrad, 90h:35074**

Sadovnichiĭ, V. A.[1] (*with* Dubrovskiĭ, V. V.; Nagornyĭ, A. V.) Asymptotics of the spectral function of a discrete operator. **90m:47040**
Saif, Mahmoud-Sabry Some spectral properties of m-accretive differential operators. **90f:47073b**
— Some spectral properties of m-accretive differential operators. **90f:47073a**
Schröder, Manfred On the spectrum of Schrödinger operators at the half space with a certain class of boundary conditions. (German and Russian summaries) **90b:47088**
Sherstyuk, A. I. *see* **Firsova, N. E., 90i:81030**
Slobodin, V. I. Homogeneous boundary value problems for a polyharmonic operator with boundary conditions on thin sets. **90i:35087**
Smiley, Michael W. *see* **Conrey, J. Brian, 90f:35119**
Stanton, Nancy K. Spectral invariants of CR manifolds. **90k:58239**
Stanton, Robert J. *see* **Moscovici, Henri, 90b:58252**
Suzuki, Takashi Ultra-hyperbolic approach to some multi-dimensional inverse problems. **90d:35298**
Temnov, A. N. *see* **Kopachevskiĭ, N. D., 90a:76151**
Wang, Xue Ping Semiclassical estimates on resolvents of Schrödinger operators with homogeneous electric field. **90i:35080**
Wong, M. W. The spectrum of a one-dimensional pseudo-differential operator. **90d:47057**
Zayed, E. M. E. (*with* Hassan, A. A. M.) The wave equation approach to an inverse problem for a general convex domain. **90h:35249**
— Hearing the shape of a general convex domain. **90j:58156**
Zhou, Zheng-Fang *see* **Baez, John C., 90f:35115**

35P10 Completeness of eigenfunctions, eigenfunction expansions

Achilov, P. I. Term-wise differentiation of expansions in eigenfunctions. (Russian) (*see* **90d:00029**)
Cheremshantsev, S. E. Expansion in eigenfunctions of a nonselfadjoint operator with a purely continuous spectrum. **90a:35174**
Evzhanov, A. E. Inequalities of Bessel, Hausdorff-Young-Riesz and Hilbert type in a system of eigen- and associated functions of a second-order elliptic operator. (Russian) **90a:35175**
Faierman, M. (*with* Roach, G. F.) Full and half-range eigenfunction expansions for an elliptic boundary value problem involving an indefinite weight. **90j:35152**
— Elliptic problems involving an indefinite weight. **90k:35192**
Jensen, Arne[2] (*with* Kitada, Hitoshi) Fundamental solutions and eigenfunction expansions for Schrödinger operators. II. Eigenfunction expansions. **90a:35176**
Joó, István On the uniform Riesz summability of eigenfunction expansions. I. **90f:35155**
Khalmukhamedov, A. R. Spectral expansions of the Schrödinger operator with a potential that is singular on manifolds. (Russian) **90j:35153**
Kitada, Hitoshi *see* **Jensen, Arne**[2]**, 90a:35176**
Kozlov, Vladimir Arkad′evich (*with* Maz′ya, V. G.) An asymptotic formula for eigenfunctions of the Dirichlet problem in a domain with a conic point. **90d:35218**
Larionov, E. A. Properties of root functions of some differential operators. (Russian) **90m:35141**
Makin, A. S. Summability of spectral expansions that correspond to the nonselfadjoint Schrödinger operator. I. **90b:35169**
— The mean value formula for eigen- and adjoint functions of the Schrödinger operator. **90i:35196**
Mamedov, Ya. N. Completeness of root functions of some boundary value problems. (Russian) **90b:35170**
Maz′ya, V. G. *see* **Kozlov, Vladimir Arkad′evich, 90d:35218**
Moiseev, E. I. Completeness of a system of root functions of the Tricomi problem for the Lavrent′ev-Bitsadze equation. (Russian) **90e:35122**
Mustafin, M. A. The Riesz basis of the Bitsadze-Samarskiĭ spectral problem with infinitely multiple eigenvalues. (Russian) **90b:35171**
Potekho, A. On the summability by the Abel method of expansions in eigenfunctions. (Russian. English and Lithuanian summaries) **90f:35156**
Pulatov, A. K. Bounded divergence of some spectral expansions. (Russian) (*see* **90m:00040**)
Roach, G. F. *see* **Faierman, M., 90j:35152**
Rudykh, G. A. (*with* Sinitsyn, A. V.) Eigenfunction expansion of a solution of a generalized Liouville equation. (Russian) **90b:35172**
Salimov, Ya. Sh. Riesz means of expansions in eigenfunctions of nonselfadjoint extensions of the Laplace operator. (Russian) **90j:35154**
Sinitsyn, A. V. *see* **Rudykh, G. A., 90b:35172**
Skubachevskiĭ, A. L. Eigenvalues and eigenfunctions of some nonlocal boundary value problems. **90c:35155**
Vagabov, A. I. Fourier series expansions in principal functions of an elliptic operator. (Russian) **90a:35177**

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Abramov, A. A. (*with* Dyshko, A. L.; Konyukhova, N. B.; Levitina, T. V.) Calculation of angular Lamé wave functions by solving auxiliary differential equations. (Russian) **90f:35044**
Allakhverdiev, B. P. Completeness of eigenfunctions for a dissipative Schrödinger operator and resonance states in a problem of the scattering of one-dimensional plane waves. (Russian. English and Azerbaijani summaries) **90b:34032**
Belinskiĭ, B. P. On the basis property of eigenfunctions of a waveguide cross section with flexible partitions. (Russian) **90k:35068**
Dyshko, A. L. *see* **Abramov, A. A.; et al., 90f:35044**
Eraliev, S. E. (*with* Kal′menov, T. Sh.) Eigenfunctions of a selfadjoint problem for a second-order equation of mixed type. (Russian) **90a:35161**
Faierman, M. (*with* Roach, G. F.) Eigenfunction expansions for a two-parameter system of differential equations. **90d:34050**
Horváth, Miklós (*with* Joó, István; Komornik, V.) An equiconvergence theorem. **90j:34039**
Hunziker, W. Notes on asymptotic perturbation theory for Schrödinger eigenvalue problems. **90d:47050**
Jenkins, Joe W. A characterization of bi-invariant Schwartz space multipliers on nilpotent Lie groups. **90d:22009**
Joó, István *see* **Horváth, Miklós; et al., 90j:34039**
Kal′menov, T. Sh. *see* **Eraliev, S. E., 90a:35161**
Kashirnikov, V. V. A-complete systems of functions for solving boundary value problems in unbounded domains. (Russian) **90g:34026**
Kirsch, Werner (*with* Simon, Barry) Corrections to the classical behavior of the number of bound states of Schrödinger operators. **90b:35065**
Komornik, V. *see* **Horváth, Miklós; et al., 90j:34039**
Konyukhova, N. B. *see* **Abramov, A. A.; et al., 90f:35044**
Kudryavtsev, L. D. Some problems in spectral theory for differential equations whose coefficients have singular points. (Russian) **90f:34048**
Levitina, T. V. *see* **Abramov, A. A.; et al., 90f:35044**
Müller, Detlef Horst On Riesz means of eigenfunction expansions for the Kohn-Laplacian. **90i:22017**
Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. **90i:47016**
Roach, G. F. *see* **Faierman, M., 90d:34050**
Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) **90e:46028**
Simon, Barry *see* **Kirsch, Werner, 90b:35065**
Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. **90d:47021**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Volkmer, Hans, 90d:47021**

35P15 Estimation of eigenvalues, upper and lower bounds

Abramov, A. A. (*with* Vaĭnshteĭn, L. A.; Dyshko, A. L.; Konyukhova, N. B.) Numerical investigations of free electrical axisymmetric oscillations of an ideally conducting prolate spheroid. (Russian) **90k:35193**
Agababyan, A. S. A lower bound for the eigenvalue, smallest in modulus, of a semi-elliptic operator. **90c:35156**
Ararktsyan, B. G. (*with* Shakhbagyan, R. R.) Estimates for the eigenvalues of second-order elliptic operators. **90d:35219**
Ashbaugh, M. S. (*with* Benguria, Rafael D.) Optimal lower bounds for eigenvalue gaps for Schrödinger operators with symmetric single-well potentials and related results. **90c:35157**
Barles, G. Remarks on uniqueness results of the first eigenvalue of the p-Laplacian. (French summary) **90b:35173**
Benguria, Rafael D. *see* **Ashbaugh, M. S., 90c:35157**
Boĭmatov, K. Kh. An estimate for the eigenvalues of the Dirichlet problem for a class of degenerate differential operators. (Russian) (*see* **90m:00040**)
Chen, Zu Chi Estimation of eigenvalue bounds of the polyharmonic operators Δ^{2m} with even orders. (Chinese) **90m:35142**
Cosner, Chris On the complex spectra of second order elliptic systems. **90k:35194**
Davies, E. B. ★ Heat kernels and spectral theory. **90e:35123**
Dyshko, A. L. *see* **Abramov, A. A.; et al., 90k:35193**
Harrell, E. M., II General bounds for the eigenvalues of Schrödinger operators. **90d:35220**
Huang, Yin Xi On eigenvalue problems of p-Laplacian with Neumann boundary conditions. **90h:35182**
Jones, D. S. The eigenvalues of a cavity resonator. **90d:35221**
Konyukhova, N. B. *see* **Abramov, A. A.; et al., 90k:35193**
Rother, Wolfgang[1] New bounds for the first eigenvalue of an elliptic equation occurring in the buckling problem for the plate. **90j:35155**
— New estimates for the first eigenvalue of Lamé's operator. **90d:35222**
Schröder, Manfred Estimates on the spectrum of Schrödinger operators with attractive boundary conditions. **90k:35195**
Shakhbagyan, R. R. *see* **Ararktsyan, B. G., 90d:35219**
Vaĭnshteĭn, L. A. *see* **Abramov, A. A.; et al., 90k:35193**
Žitňan, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. **90d:35223**

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Abdelmoula, Najoua Symétrisation d'inéquations élliptiques et applications géométriques. [Symmetrization of elliptic inequalities and geometric applications] **90e:53049**
Allegretto, W. Second order elliptic equations with degenerate weight. **90c:35056**
Berryman, James G. Bounds on decay constants for diffusion through inhomogeneous media. **90a:35105**
Bochenek, Jan On some linear eigenvalue problems with an indefinite weight function. **90c:35051**
Chen, Roger Eigenvalue estimate on a compact Riemannian manifold. **90k:58228**
— Neumann eigenvalue estimate on a compact Riemannian manifold. **90g:58135**
Cheng, Qing Ming Eigenvalues and eigenfunctions of the Laplacian on a Riemannian manifold. (Chinese. English summary) **90b:58265**
Dittmar, Bodo Monotonie bei Stekloffschen Eigenwerten. (English summary) [Monotonicity in Steklov eigenvalues] **90g:35038**
Geveci, T. (*with* Reddy, B. Daya; Pearce, Howard T.) On the approximation of the spectrum of the Stokes operator. (French summary) **90i:65186**
Hersch, Joseph Isoperimetric monotonicity: some properties and conjectures (connections between isoperimetric inequalities). **90d:35059**
Hook, Stephen M. Domain-independent upper bounds for eigenvalues of elliptic operators. **90h:35075**
Jones, A. S. (*with* Stewart, David Edward; Thompson, H. B.) Eigenvalue estimates and existence for a generalised Graetz problem. **90g:76086**
Lee, Jeffrey M. Eigenvalue comparison for tubular domains. **90k:58223**
Orěl, V. R. Determination of free oscillations of an elastic plate by means of N-parametric eigenfunctions of a biharmonic operator. **90c:73078**
Pearce, Howard T. *see* **Geveci, T.; et al., 90i:65186**
Reddy, B. Daya *see* **Geveci, T.; et al., 90i:65186**
Stewart, David Edward *see* **Jones, A. S.; et al., 90g:76086**
Thompson, H. B. *see* **Jones, A. S.; et al., 90g:76086**

35P20 Asymptotic distribution of eigenvalues and eigenfunctions

Agranovich, M. S. (*with* Markus, A. S.) On spectral properties of elliptic pseudo-differential operators far from selfadjoint ones. (German and Russian summaries) **90i:35197**

Andreev, Aleksandr Sergeevich Spectral asymptotics for compact pseudodifferential operators on a Euclidean set. **90g:35122**

Ashurov, R. R. An asymptotic estimate in L_2 for the Riesz means of the spectral function of an elliptic operator. **90d:35224**

Boĭmatov, K. Kh. Spectral asymptotics of differential operators in unbounded domains of finite measure. **90h:35184**

— Eigenvalues of elliptic differential operators in limit-cylindrical domains. **90h:35183**

Burda, Pavel The asymptotic distribution of eigenvalues of operators related to elliptic systems. I. Nonselfadjoint elliptic systems. (Russian and Czech summaries) **90b:35174a**

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Bochenek, Jan Multiple positive solutions for a class of nonlinear boundary value problems of the fourth order. **90h:35095**
Brown, K. J. (*with* Castro, Alfonso; Shivaji, R.) Nonexistence of radially symmetric nonnegative solutions for a class of semi-positone problems. **90f:35010**
Castro, Alfonso *see* **Brown, K. J.; et al., 90f:35010**
de Figueiredo, Djairo (*with* Gossez, Jean-Pierre) Nonresonance below the first eigenvalue for a semilinear elliptic problem. **90b:35083**
Gallouët, Thierry (*with* Mignot, Fulbert; Puel, Jean-Pierre) Quelques résultats sur le problème $-\Delta u = \lambda e^u$. (English summary) [A few results on the equation $-\Delta u = \lambda e^u$] **90c:35088**
Giannoni, F. (*with* Micheletti, A. M.) Some remarks about multiplicity results for some semilinear elliptic problems by singularities theory. (Italian summary) **90i:35097**
Gossez, Jean-Pierre *see* **de Figueiredo, Djairo, 90b:35083**
Kawohl, Bernhard (*with* Longinetti, Marco) On radial symmetry and uniqueness of positive solutions of a degenerate elliptic eigenvalue problem. **90e:35060**
Lazer, A. C. Introduction to multiplicity theory for boundary value problems with asymmetric nonlinearities. **90c:35093**
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Micheletti, A. M. *see* **Giannoni, F., 90i:35097**
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Mochizuki, Kiyoshi On small data scattering with cubic convolution nonlinearity. **90a:35207**
Nguyên Phuong Các On nontrivial solutions of a Dirichlet problem whose jumping nonlinearity crosses a multiple eigenvalue. **90f:35077**
Puel, Jean-Pierre *see* **Gallouët, Thierry; et al., 90c:35088**
Ruf, Bernhard Multiplicity and eigenvalue intersecting nonlinearities. **90j:35092**
Shivaji, R. *see* **Brown, K. J.; et al., 90f:35010**
Spruck, Joel The elliptic sinh Gordon equation and the construction of toroidal soap bubbles. **90i:35265**

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Zhou, Huan Song *see* **Zhu, Xi Ping, 90e:35016**
Zhu, Xi Ping (*with* Zhou, Huan Song) Bifurcation from the essential spectrum of superlinear elliptic equations. **90e:35016**

35P99 None of the above, but in this section

Grünbaum, F. A. Differential equations in the spectral parameter: the higher order case. **90g:35125**

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Barton, Gabriel ★ Elements of Green's functions and propagation. **90f:35001**
Besson, Gérard Propriétés génériques des fonctions propres et multiplicité. [Generic properties of eigenfunctions, and multiplicity] **90k:58226**
Chanillo, Sagun A problem in electrical prospection and an n-dimensional Borg-Levinson theorem. **90i:35279**
Colin de Verdière, Yves Résonances. [Resonances] **90m:58213**
Combescure, M. The quantum stability problem for some class of time-dependent Hamiltonians. **90a:81022**
El Badia, Abdellatif Sur l'unicité d'un problème inverse spectral bidimensionnel. (English summary) [On the uniqueness of a bidimensional inverse spectral problem] **90d:35289**
Guillemin, V. Inverse spectral results on two-dimensional tori. **90m:58214**
Kerimkulov, S. E. On an eigenvalue problem for an equation of mixed type. (Russian. Kazakh summary) **90a:35163**
Khalmukhamedov, A. R. The vanishing at a singular point of eigenfunctions of a Schrödinger operator with a strongly singular potential. (Russian) **90h:35068**
Krichever, I. M. Spectral theory of two-dimensional periodic operators and its applications. **90j:58119**
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Seidman, Thomas I. An inverse eigenvalue problem with rotational symmetry. **90a:35227**
Semenoff, Gordon W. Quantum adiabatic phases, effective actions and anomalies. **90m:81035**
Shih, Ying A counterexample to the convexity property of the first eigenfunction on a convex domain of negative curvature. **90g:58140**
Sigal, I. M. Stark effect in multielectron systems: nonexistence of bound states. **90h:81033**

35Qxx Special equations and problems [see also 35J05, 35K05, 35L05]

Katayama, Yoshishige *see* **Terauti, Ryutaro,** (Not in MR)
Kondrat′ev, V. A. (*with* Kopáček, Jiří; Oleĭnik, O. A.) Smoothness of generalized solutions of the Dirichlet problem for the biharmonic equation, the Navier-Stokes system and the von Kármán system in nonsmooth two-dimensional domains. (Russian) **90e:35128**
Kopáček, Jiří *see* **Kondrat′ev, V. A.; et al., 90e:35128**
Oleĭnik, O. A. *see* **Kondrat′ev, V. A.; et al., 90e:35128**
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Ames, W. F. *see* **Rogers, Colin, 90i:35001**
Davis, Julian L. ★ Wave propagation in solids and fluids. **90d:73018**
Ermakov, S. M. (*with* Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. **90k:60168**
Nekrutkin, V. V. *see* **Ermakov, S. M.; et al., 90k:60168**
Rogers, Colin (*with* Ames, W. F.) ★ Nonlinear boundary value problems in science and engineering. **90i:35001**
Sipin, A. S. *see* **Ermakov, S. M.; et al., 90k:60168**

35Q05 Euler-Poisson-Darboux equation and generalizations

Andreev, A. A. (*with* Senitskiĭ, A. Yu.) A system of Euler-Poisson-Darboux equations. I. (Russian) (*see* **90i:00001**)
Beirão da Veiga, H. On the well-posedness of the Euler flow in bounded domains. **90m:35148**
Denisov, V. N. Stabilization of means of the solution of the Cauchy problem for hyperbolic equations in a space of negative curvature. **90d:35235**
— Some problems on the stabilization of means of the solution of the Cauchy problem for hyperbolic equations. **90d:35234**
Senitskiĭ, A. Yu. *see* **Andreev, A. A., (90i:00001)**
Wei, Guang Zu (*with* Yuan, Zhong Xin) Initial-boundary value problems for nonlinear Euler-Poisson-Darboux equations. (Chinese) **90d:35236**
Xu, Hong Lian On the singular Cauchy problems for a class of generalized Euler-Poisson-Darboux equations. (Chinese. English summary) **90i:35214**
Yuan, Zhong Xin *see* **Wei, Guang Zu, 90d:35236**

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Dai, Zheng De *see* **Yang, Guang Jun, 90c:35002**
Kingston, J. G. Spherical waves in odd-dimensional space. **90b:35134**
Kuz′min, A. T. (*with* Volkodavov, V. F.) The problem Δ_2 for an equation of hyperbolic type in a four-dimensional space. (Russian) (*see* **90i:00001**)

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Yang, Guang Jun (*with* Dai, Zheng De) Uniqueness of nonflat solution for a class of Fuchsian equations with complex coefficients. **90c:35002**

35Q10 Navier-Stokes equations [see also 76D05]

Albeverio, S. (*with* Høegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. **90i:35215**

Antontsev, S. N. (*with* Díaz Díaz, Jesús Ildefonso) The energy method and the localization of solutions of equations of continuum mechanics. **90h:35193**

Bègue, C. (*with* Conca, C.; Murat, François; Pironneau, O.) Les équations de Stokes et de Navier-Stokes avec des conditions aux limites sur la pression. [Stokes and Navier-Stokes equations with boundary conditions on the pressure] **90j:35161**

Beirão da Veiga, H. On a linear nonelliptic system concerning the dynamic of stationary motions. (Italian summary) **90d:35237**

— Existence results in Sobolev spaces for a stationary transport equation. **90d:35238**

— On the incompressible limit of the compressible Navier-Stokes equations. **90a:35185**

— Kato's perturbation theory and well-posedness for the Euler equations in bounded domains. **90d:35239**

— Boundary-value problems for a class of first order partial differential equations in Sobolev spaces and applications to the Euler flow. **90d:35240**

— Well-posedness and motion of inviscid fluids. **90f:35160**

Ben-Artzi, Matania The generalized Riemann problem for reactive flows. **90b:35189**

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Butuzov, V. F. (*with* Nefëdov, N. N.; Polezhaeva, E. V.) Asymptotic solutions of linearized problems of the natural and forced resonance oscillations of a medium with small viscosity. (Russian) **90m:35149**

Calderón, Calixto P. Existence of weak solutions for the Navier-Stokes equations with initial data in L^p. **90k:35199**

— Addendum to the paper: "Existence of weak solutions for the Navier-Stokes equations with initial data in L^p". **90k:35200**

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Chemin, Jean-Yves Analyse 2-microlocale et équations d'Euler incompressibles. [2-microlocal analysis and incompressible Euler equations] **90m:35150**

Choquin, Jean-Philippe (*with* Cottet, Georges-Henri) Sur l'analyse d'une classe de méthodes de vortex tridimensionnelles. (English summary) [On the analysis of three-dimensional vortex methods] **90a:35186**

Conca, C. Stokes equations with nonsmooth data. **90m:35151**

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Constantin, P. (*with* Foiaş, Ciprian) ★ Navier-Stokes equations. **90b:35190**

Cottet, Georges-Henri (*with* Soler, Juan) Three-dimensional Navier-Stokes equations for singular filament initial data. **90a:35187**

— *see also* **Choquin, Jean-Philippe, 90a:35186**

Cruzeiro, Ana Bela Solutions et mesures invariantes pour des équations d'évolution stochastiques du type Navier-Stokes. (English summary) [Solutions and invariant measures for Navier-Stokes stochastic evolution equations] **90c:35161**

Dairbaeva, G. Solvability of a conjugate boundary value problem for Navier-Stokes equations. (Russian) **90a:35188**

Dauge, Monique Stationary Stokes and Navier-Stokes systems on two- or three-dimensional domains with corners. I. Linearized equations. **90b:35191**

De Masi, A. (*with* Esposito, Raffaele; Lebowitz, J. L.) Incompressible Navier-Stokes and Euler limits of the Boltzmann equation. **90m:35152**

Demidenko, G. V. Necessary conditions for the well-posedness of the Cauchy problem for a linearized Navier-Stokes system. **90g:35126**

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— (*with* von Wahl, Wolf) Das lineare Stokes-System in $\mathbf{R}^3$. II. Das Außenraumproblem. [The linear Stokes system in $\mathbf{R}^3$. II. The problem of the exterior domain] **90g:35127**

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DiPerna, R. J. Nonuniform structures in solutions to the Euler equations. **90k:35201**

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Fabes, E. B. (*with* Kenig, C. E.; Verchota, G. C.) The Dirichlet problem for the Stokes system on Lipschitz domains. **90d:35258**

Farwig, Reinhard Stationary solutions of compressible Navier-Stokes equations with slip boundary condition. **90k:35202**

Fedoryuk, M. V. Characteristics of the flow of an incompressible fluid in a gravitational field. **90e:35129**

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— (*with* Miyakawa, Tetsuro) Navier-Stokes flow in $\mathbf{R}^3$ with measures as initial vorticity and Morrey spaces. **90e:35130**

— (*with* Sohr, Hermann) On the Stokes operator in exterior domains. **90k:35203**

Halpern, Laurence (*with* Schatzman, Michelle) Artificial boundary conditions for incompressible viscous flows. **90c:35164**

Ha Tien Ngoan A family of solutions of the plane flow problem. **90i:35218**

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Hoff, David (*with* Liu, Tai-Ping) Shock wave solutions of the 1d Navier-Stokes equations for compressible, isentropic flow. (*see* **90i:00003**)

Il'in, A. A. (*with* Filatov, A. N.) The Navier-Stokes equations on a sphere and their unique solvability. Stability of stationary solutions. (Russian) **90c:35165**

Isozaki, Hiroshi Singular limits for the compressible Euler equation in an exterior domain. II. Bodies in a uniform flow. **90k:35204**

Kato, Tosio (*with* Ponce, Gustavo) Commutator estimates and the Euler and Navier-Stokes equations. **90f:35162**

Kenig, C. E. *see* **Fabes, E. B.; et al., 90d:35258**

Kim, Jong Uhn Regularity of the motion of a Bingham fluid. (*see* **90j:00016**)

— Semidiscretization method for three-dimensional motion of a Bingham fluid. **90k:35205**

Kozono, Hideo Global L^n-solution and its decay property for the Navier-Stokes equations in half-space $\mathbf{R}^n_+$. **90f:35163**

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Kreĭn, S. G. (*with* Chan Tkhu Kha) The problem of the flow of a nonuniformly heated viscous fluid. (Russian) **90m:35154**

Lebowitz, J. L. *see* **De Masi, A.; et al., 90m:35152**

Levenshtam, V. B. Higher approximations of the averaging method for the Navier-Stokes system. I. The case when the amplitudes of external mass forces are of order 1. (Russian) **90j:35163**

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Liao, Wuwell Statistical properties of solutions to the Navier-Stokes equation in the limit of vanishing viscosity. **90h:35194**

Lin, Zheng Guo Singular limits in the Cauchy problem for Navier-Stokes equations with two parameters. (Chinese) **90e:35131**

— The initial-boundary value problem for compressible fluids with large parameters. (Chinese. English summary) **90m:35155**

Litvinov, V. G. Operator equations that describe steady flows of a nonlinear viscoelastic fluid. (Russian) **90i:35219**

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Łukaszewicz, G. On the stationary motion of a granulated medium with constant density. (Russian and Polish summaries) **90a:35189**

— On stationary flows of asymmetric fluids. (Italian summary) **90f:35164**

— On nonstationary flows of asymmetric fluids. (Italian summary) **90f:35165**

— (*with* Waluś, Włodzimierz) On stationary flows of asymmetric fluids with heat convection. **90f:35166**

Medeiros, L. A. *see* **Ebihara, Y., 90c:35163**

Miyakawa, Tetsuro On L^2 stability of stationary Navier-Stokes flow in exterior domains. **90f:35167**

— *see also* **Giga, Yoshikazu, 90e:35130** *and* **90i:35217**

Morimoto, Hiroko On the existence of weak solutions of equation of natural convection. **90i:35220**

Murat, François *see* **Bègue, C.; et al., 90j:35161**

Naumann, Joachim On a maximum principle for weak solutions of the stationary Stokes system. **90h:35195**

Nefëdov, N. N. *see* **Butuzov, V. F.; et al., 90m:35149**

Novikov, V. V. Exceptional sets of a stationary system of Navier-Stokes equations. (Russian) **90d:35242**

Onslow, S. H. *see* **Shail, R., 90c:35168**

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Oskolkov, A. P. Asymptotic behavior as $t \to \infty$ of solutions of initial-boundary value problems for equations of motion of linear viscoelastic fluids. (Russian. English summary) **90k:35207**

Pileckas, Konstantinas An example of the nonuniqueness of the solution of a problem with a free noncompact boundary for a system of Navier-Stokes equations. (Russian. English and Lithuanian summaries) **90d:35244**

— On the problem of the flow of a heavy viscous incompressible fluid with a free noncompact boundary. (Russian. English and Lithuanian summaries) **90d:35243**

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— Homogenization of Navier-Stokes model: the dependence upon parameters. **90h:35196**

Ponce, Gustavo The initial value problem for Euler and Navier-Stokes equations in $L^p_s(\mathbf{R}^2)$. **90a:35190**

— *see also* **Kato, Tosio, 90f:35162**

Rautmann, R. Ein Vektorpotentialmodell für die Wirbelbildung am Rand umströmter Körper. (English and Russian summaries) [A vector potential model for the formation of vorticity in viscous flow past a solid body] **90h:35197**

— Eine konvergente Produktformel für linearisierte Navier-Stokes-Probleme. [A convergent product formula for linearized Navier-Stokes problems] (*see* **90a:00025**)

Ruas, Vitoriano Approximation des équations d'écoulements visqueux incompressibles en formulation potentiel vecteur par éléments finis quadratiques. (English summary) [A quadratic finite-element approximation for the equations of viscous incompressible flow in terms of the vector potential] **90c:35166**

Salvi, R. On the Navier-Stokes equations in noncylindrical domains: on the existence and regularity. **90c:35167**

— Error estimates for the spectral Galerkin approximations of the solutions of Navier-Stokes type equations. **90f:35168**

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Secchi, Paolo On the stationary and nonstationary Navier-Stokes equations in $\mathbf{R}^n$. (Italian summary) **90i:35221**

Shail, R. (*with* Onslow, S. H.) Some Stokes flows exterior to a spherical boundary. **90c:35168**

Shishmarëv, I. A. On the smoothing of solutions of the Cauchy problem for a system of equations of surface waves. (Russian) **90d:35246**

Sohr, Hermann *see* **Giga, Yoshikazu**, **90k:35203**
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— Unsteady motions of a finite isolated mass of a self-gravitating fluid. (Russian) **90i:35222**
— *see also* **Denisova, I. V.**, **90m:35153**
Solopenko, V. M. Euler equations in $\mathbf{R}^{2+1}$: the resolvent form and solvability. (Russian) **90m:35156**
Song, J. C. Continuous dependence on the time and spatial geometry for the Navier-Stokes equations. **90d:35247**
Sviridyuk, G. A. On the manifold of solutions of a problem on the dynamics of an incompressible viscoelastic fluid. (Russian) **90b:35192**
Troshkin, O. V. The algebraic structure of two-dimensional stationary Navier-Stokes equations, and nonlocal uniqueness theorems. **90c:35169**
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von Wahl, Wolf *see* **Deuring, Paul; et al.**, **90c:35162** *and* **90g:35127**
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Afendikov, A. L. (*with* Babenko, K. I.) Mathematical modeling of turbulence in flows of a viscous incompressible fluid. (Russian) **90m:76038**
Ames, Karen A. (*with* Payne, L. E.) Decay estimates in steady pipe flow. **90f:76040**
Asano, Kiyoshi Zero-viscosity limit of the incompressible Navier-Stokes equation. II. **90f:76041**
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Barnyak, M. Ya. Small transverse oscillations of a viscous incompressible fluid in a horizontal channel. (Russian) **90i:76053**
Barta, E. (*with* Liron, N.) Slender body interactions for low Reynolds numbers. I. Body-wall interactions. **90a:76068**
— (*with* Liron, N.) Slender body interactions for low Reynolds numbers. II. Body-body interactions. **90a:76069**
Bayada, Guy (*with* Chambat, Michèle) Homogenization of the Stokes system in a thin film flow with rapidly varying thickness. (French summary) **90e:76060**
Beirão da Veiga, H. A well-posedness theorem for nonhomogeneous inviscid fluids via a perturbation theorem. **90i:35030**
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Biehounek, J. Über dissipative Strömungen und statistische Lösungen von Anfangs-Randwertproblemen. [On dissipative flows and statistical solutions of initial-boundary value problems] **90j:58022**
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Borchers, W. On the characteristic method for the incompressible Navier-Stokes equations. (*see* **90c:76019**)
Brenier, Yann The least action principle and the related concept of generalized flows for incompressible perfect fluids. **90g:58012**
Brezzi, F. (*with* Canuto, Claudio; Russo, Alessandro) A self-adaptive formulation for the Euler/Navier-Stokes coupling. **90h:76075**
Bridges, Thomas J. The Hopf bifurcation with symmetry for the Navier-Stokes equations in $(L_p(\Omega))^n$, with application to plane Poiseuille flow. **90f:35022**
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Chambat, Michèle *see* **Bayada, Guy**, **90e:76060**
Childress, S. (*with* Ierley, G. R.; Spiegel, E. A.; Young, W. R.) Blow-up of unsteady two-dimensional Euler and Navier-Stokes solutions having stagnation-point form. **90e:76054**
Cichocki, B. (*with* Felderhof, B. U.) Periodic fundamental solution of the linear Navier-Stokes equations. **90j:76029**
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Felderhof, B. U. *see* **Cichocki, B.**, **90j:76029**
Foiaş, Ciprian (*with* Temam, R.) The connection between the Navier-Stokes equations, dynamical systems, and turbulence theory. **90k:58118**
— (*with* Manley, O.; Sirovich, Lawrence) Empirical and Stokes eigenfunctions and the far-dissipative turbulent spectrum. **90m:76041**
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Friedman, Avner (*with* Vogelius, Michael) Identification of small inhomogeneities of extreme conductivity by boundary measurements: a theorem on continuous dependence. **90c:35198**
Geveci, T. (*with* Reddy, B. Daya; Pearce, Howard T.) On the approximation of the spectrum of the Stokes operator. (French summary) **90i:65186**
Goering, Herbert (*with* Tobiska, Lutz) Finite-element methods for singularly perturbed elliptic boundary value problems and its application to the stationary Navier-Stokes equations. (German and Russian summaries) **90g:65142**
Graffi, Dario On a method for proving uniqueness theorems in mathematical physics. (Italian) **90k:35228**
Guo, Ben Yu (*with* Ma, He Ping) A strict error estimate for a spectral method for compressible fluid flow. (Chinese. English summary) **90i:76009**
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Laurence, Peter (*with* Stredulinsky, Edward) A survey of recent regularity results for second order queer differential equations. **90a:35036**

Lavrent'ev, M. M., Jr. Estimates for solutions of an equation of variable type. (Russian) **90j:35125**

Leela, S. *see* **Lakshmikantham, V.; et al., 90h:34073**

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Lin, Jun Min On the harmonic maps from $\mathbf{R}^2$ into H^2. **90f:58038**

Logan, J. David (*with* Woerner, Edwin L.) Sensitivity of self-similar ZND waves in condensed media. **90g:80016**

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Malomed, B. A. (*with* Gedalin, K. E.) Stability of cellular wave structures in oscillatory pattern-forming systems near onset. **90k:76054**

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Mascagni, Michael An initial-boundary value problem of physiological significance for equations of nerve conduction. **90g:92026**

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Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) **90e:58002**

Pessa, Eliano A mathematical method of global analysis of neural nets. **90f:92014**

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Rionero, S. (*with* Mulone, G.) A nonlinear stability analysis of the magnetic Bénard problem through the Lyapunov direct method. **90a:76092**

Rogers, Colin Elliptic warm-core theory: the pulsrodon. **90e:76048**

Sandrakov, G. V. ★ Осреднение линеаризованной системы гидродинамики с малой вязкостью и скорость звука в смесях. (Russian) [Averaging a linearized system of hydrodynamics with small viscosity, and the speed of sound in mixtures] **90c:76050**

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Takayama, Nobuki Holonomic solution of Weisner's operator. **90m:35009**

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Zupnik, B. M. Solution of harmonic equations in gauge theories. **90d:81095**

35Rxx Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

35R05 Equations with discontinuous coefficients or data

Peng, Yue Jun A necessary and sufficient condition for well-posedness of boundary value problems for a class of partial differential equations. (Chinese. English summary) 90b:35228

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Avellaneda, Marco (*with* Lin, Fang-Hua) Compactness methods in the theory of homogenization. II. Equations in nondivergence form. **90c:35035**
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Chistyakov, V. M. Smoothness of solutions of quasilinear parabolic systems with nondifferentiable coefficients. **90d:35042**
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Feyel, Denis (*with* de La Pradelle, Arnaud) Étude de l'équation $\frac{1}{2}\Delta u - u\mu = 0$ où μ est une mesure positive. [Study of the equation $\frac{1}{2}\Delta u - u\mu = 0$, where μ is a positive measure] **90j:35074**
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Ospanov, K. N. Properties of solutions of parabolic equations with nonsmooth coefficients. (Russian) (*see* **90h:00003**)
Simanca, Santiago R. A mixed boundary value problem for the Laplacian. **90a:35059**
Transirico, Maria (*with* Troisi, Mario) The Dirichlet problem for elliptic equations with discontinuous coefficients. (Italian. English summary) **90m:35056**
— (*with* Troisi, Mario) A class of second-order elliptic equations in unbounded open sets. (Italian. English summary) **90c:35063**
Troisi, Mario *see* **Transirico, Maria, 90c:35063** *and* **90m:35056**
Wu, De Quan Existence of continuous solutions to degenerate quasilinear parabolic equations with coefficient singularities. (Chinese) **90e:35097**

35R10 Difference-partial differential equations, equations with time lag

Andreev, A. A. (*with* Senitskiĭ, A. Yu.) The Cauchy problem for the Euler-Poisson-Darboux equation of special form with deviating argument. (Russian) (*see* **90a:00007**)
Brzychczy, Stanisław An estimate for the rate of convergence of successive Chaplygin approximations for a parabolic system of functional-differential equations. (Russian) **90i:35274**
— On an estimate for the modulus of the solution of a nonlinear system of functional-differential equations of parabolic type. (Russian) **90j:35187**
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Grimmer, R. (*with* Lenczewski, R.; Schappacher, W.) Well-posedness of hyperbolic equations with delay in the boundary conditions. **90h:35228**
Kamont, Zdzisław (*with* Turo, Jan) Generalized solutions of boundary value problems for quasilinear systems with retarded argument. (Serbo-Croatian summary) **90c:35192**
Laurence, Peter (*with* Stredulinsky, Edward) A bootstrap argument for Grad generalized differential equations. **90j:35188**
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Malec, Marian (*with* Mosurski, Ryszard) Strong maximum principle for nonlinear differential-functional operators in unbounded sets. (Italian summary) **90f:35196**
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Wu, Jian Hong Semigroup and representation for a class of partial differential equations with infinite delay. (*see* **90j:00016**)
Xiang, Xiao Ling Existence of solutions to a class of partial differential equations with delays. (Chinese) **90b:35229**
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Memory, Margaret C. Bifurcation and asymptotic behavior of solutions of a delay-differential equation with diffusion. **90m:35029**
Niu, Pei Ping On the stability of the equation $u_t = \Delta_u - f(u(t-\tau, x), u(t, x))$. (Chinese. English summary) **90m:35030**
Rozhkovskaya, T. N. One-sided problems with convex constraints for quasilinear parabolic operators. **90i:35136**
Sablik, Maciej Conditional iteration semigroups. **90h:39021**
Sakhtaganova, A. T. On the presence of peaking in the solution of a problem with delay. (Russian) **90j:35039**
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Voigt, W. On finite-difference methods for parabolic functional-differential equations on unbounded domains. (*see* **90i:65008**)

35R15 Equations on function spaces [see also 58D25]

Bendikov, A. D. (*with* Pavlov, I. V.) On the Poisson equation on the infinite-dimensional torus. **90e:35160**
Bogdanskiĭ, Yu. V. The Cauchy problem for the heat equation with a nonregular elliptic operator. **90j:35189**
Dyachkin, O. D. Solution of a parabolic equation for measures on the Hilbert manifold. (Russian) (*see* **90m:00040**)
Frolov, N. N. The structure of fundamental functions of infinite-dimensional differential operators. (Russian) **90j:35190**
Gadzhiev, G. A. On the multiparameter spectral theory of linear and nonlinear differential operators. (Russian) **90d:35283**
Leha, Gottlieb On diffusion semigroups generated by semi-elliptic differential operators in infinite dimensions. **90g:35158**
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Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**
— ★ Continual means and boundary value problems in function spaces. **90m:35195**
Shakhbagyan, R. L. Infinite-dimensional elliptic operators on manifolds with boundary. (Russian) **90c:35193**
— A general initial-boundary value problem for higher-order infinite-dimensional parabolic equations. (Russian) **90a:35217**
Száz, Á. An application of an implicit function theorem to a partial differential equation. **90i:35276**
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Khrennikov, A. Yu. Infinite-dimensional pseudodifferential operators. **90e:47046**
Lions, P.-L. Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. I. The case of bounded stochastic evolutions. **90j:35029**
Métivier, Michel ★ Stochastic partial differential equations in infinite-dimensional spaces. **90a:60112**
Schmeelk, John Infinite-dimensional Fock spaces and an associated generalized Laplacian operator. **90g:46058**
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Zhu, Ben Ren Some inverse problems for Hamiltonian systems. (Chinese. English summary) **90a:35228**

35R20 Operator equations, general [see also 34Gxx, 47A50, 47H15]

Aczél, J. (*with* Gronau, D.) Some differential equations related to iteration theory. **90b:35230**
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D'Ancona, Piero Gevrey well-posedness of an abstract Cauchy problem of weakly hyperbolic type. **90d:35285**
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Koike, Minoru An abstract nonlinear Cauchy problem with a vector valued time variable. **90j:35191**
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Malovichko, V. A. Boundary value problems for systems of differential equations, with operator coefficients, of parabolic and of hyperbolic type. (Russian. English summary) **90e:35163**
— Boundary value problems for systems of differential equations with operator coefficients of hyperbolic type. (Russian. English summary) **90g:35159**
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Ricceri, Biagio Sur les solutions classiques du problème de Darboux pour certaines équations aux dérivées partielles sous forme implicite dans les espaces de Banach. (English summary) [On classical solutions of the Darboux problem for certain implicit partial differential equations in Banach spaces] **90b:35232**
Sushch, V. N. Control in nonlocal boundary value problems. **90b:35233**
Sviridyuk, G. A. A problem of Showalter. (Russian) **90e:35161**
— Manifolds of solutions of a class of evolution and dynamic equations. **90c:35195**
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Vityuk, N. Ya. Solvability of a problem with operator coefficients. (Russian) **90e:35162**

Winiarska, Teresa Multiple differentiability of solutions with respect to parameter. **90b:35234**
— ★ Differential equations with parameter. **90e:35164**
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Arosio, Alberto Hyperbolic equations in Banach scales. **90k:35147**
Babaev, Azad A. Embedding theorems in some weighted vector-valued spaces. Degenerate coercive boundary value problems. (Russian. English and Azerbaijani summaries) **90k:46066**
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Brykalov, S. A. Nonlinear boundary value problems and the existence of stationary states of heating control systems. **90k:47124**
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Tutschke, Wolfgang ★ Solution of initial value problems in classes of generalized analytic functions. **90k:35006**
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35R25 Improperly posed problems

Amonov, B. K. An ill-posed problem without initial conditions. (Russian) **90d:35286**
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Shanidze, Z. G. Well-posedness of automatic control problems. (Russian. English and Georgian summaries) **90h:35230**
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Kaliaskarova, T. R. A study of conditional well-posedness of boundary value problems for second-order model parabolic systems. (Russian. English summary) **90h:35115**
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Maslov, V. P. Resonance ill-posedness. (Russian) **90g:65077**
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35R30 Inverse problems (undetermined coefficients, etc.)

Abdulkerimov, L. Sh. Determination of the right-hand side of an abstract parabolic equation with additional conditions. (Russian) **90g:35160**
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— ★ К вопросу о разрешимости многомерных обратных задач для гиперболических уравнений. (Russian) [On the problem of the solvability of multidimensional inverse problems for hyperbolic equations] **90b:35236**
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Cannon, John R. (*with* Lin, Yanping) Determination of parameter $p(t)$ in Hölder classes for some semilinear parabolic equations. **90a:35222**
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Gilliam, David (*with* Mair, B. A.; Martin, Clyde Franklin) Observability and inversion for the heat equation. (*see* **90k:93007**)
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Sen, A. *see* **Chadam, J.; et al., 90b:76031** *and* **90c:76104**
Shemetov, N. V. On the existence of a generalized solution of a nonstrictly hyperbolic system. (Russian) **90j:35135**
Shmarev, S. I. *see* **Pukhnachev, V. V., (90k:00021)**
Silvano, Cristina (*with* Villa, Mauro) On a fluid-dynamical model of shallow water. (Italian. English summary) **90f:76047**
Stojanovic, Srdjan Injection of ideal fluid from a slot into a stream: two free boundaries. **90a:76049**
Streit, Uwe An efficient enthalpy-type method for the Stefan problem. **90i:65174**
— An efficient algorithm for determining the mushy region in a Stefan problem. **90h:80007**
— Error estimates for the explicit finite difference method solving the Stefan problem. (German and Russian summaries) **90d:65172**
Struwe, Michael Free boundary problems for surfaces of prescribed constant mean curvature and harmonic maps. **90e:58162**
Tarzia, D. A. ★ A bibliography on moving-free boundary problems for the heat-diffusion equation. The Stefan problem. **90k:35002**
Tiba, Marinela A comparison between the finite and the boundary element method in two-phase Stefan problems. **90i:80008**
Touzani, R. *see* **Lesaint, P., 90d:65174**
Villa, Mauro *see* **Silvano, Cristina, 90f:76047**
Visintin, Augusto A new model for supercooling and superheating effects. **90e:80014**
— Mathematical models of solid-solid phase transitions in steel. **90f:80008**
Xie, Wei Qing *see* **Dewynne, J.; et al., 90g:80004**
Yebari, N. *see* **Conrad, F., 90a:35018**
Yin, Hong Ming *see* **Cannon, John R., 90f:35104**
Zaĭtsev, V. G. Optimal control of two-phase processes with a free boundary. (Russian) **90e:49004**

35R45 Differential inequalities

Usami, Hiroyuki A note on the inequality $\Delta u \geq k(x)e^u$ in $\mathbf{R}^n$. **90m:35213**

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Hu, Bei Obstruction problems for a class of nonlinear elliptic equations. (Chinese) **90c:35097**

35R50 Differential equations of infinite order

Hà Duy Bang *see* **Trần Đứ'c Vân, 90i:35294**
Lê Quang Trung *see* **Nguyễn Minh Chu'o'ng, 90b:35251**
Nguyễn Minh Chu'o'ng (*with* Lê Quang Trung) Degenerate nonlinear elliptic differential equations of infinite order in weighted Sobolev-Orlicz spaces. (Russian) **90b:35251**
Trần Đú'c Vân (*with* Hà Duy Bang) Solvability of infinite-order nonlinear differential equations in unbounded domains. **90i:35294**

Items with secondary classifications in 35R50

Aoki, Takashi Existence and continuation of holomorphic solutions of differential equations of infinite order. **90e:35007**
Ishimura, Ryuichi Endomorphismes de l'espace des germes de fonctions holomorphes en un point et opérateurs différentiels d'ordre infini. (English summary) [Endomorphisms of the space of germs of functions holomorphic at a point and differential operators of infinite order] **90i:32004**
Kaneko, Akira A topological characterization of hyperfunctions with real analytic parameters. **90e:46033**
Kawai, Takahiro Systems of linear differential equations of infinite order: an aspect of infinite analysis. **90j:58139**
Oganesyan, G. R. Weighted Cauchy and Dirichlet problems for some partial differential equations that are singular on the boundary. **90e:35039**

35R60 Equations and systems with randomness

Abdullaev, F. Kh. (*with* Darmanyan, S. A.) Evolution of random fields in nonlinear dispersing media. (Russian) **90k:35275**
Balzano, Michele Random relaxed Dirichlet problems. **90i:35295**
Bellomo, N. (*with* Flandoli, Franco) Stochastic partial differential equations in continuum physics—on the foundations of the stochastic interpolation method for Ito's type equations. **90e:35174**
Bondarev, B. V. (*with* Dzundza, A. I.) Quasilinear partial differential equations that are perturbed by "small" pre-Gaussian noise. (Russian) **90h:35260**
— (*with* Dzundza, A. I.) Quasilinear hyperbolic stochastic equations that are perturbed by small noise. (Russian) **90h:35259**
Constantin, I. (*with* Dănilescu, A.) On some classes of random operators with applications in the calculation of metallic structures. (Romanian summary) (*see* **90d:00043**)
Dănilescu, A. *see* **Constantin, I., (90d:00043)**
Darmanyan, S. A. *see* **Abdullaev, F. Kh., 90k:35275**
Dzundza, A. I. *see* **Bondarev, B. V., 90h:35259** *and* **90h:35260**
Flandoli, Franco *see* **Bellomo, N., 90e:35174**
Joshi, Mohan Nonlinear random elliptic boundary value problem. **90i:35296**
Orsingher, Enzo Stochastic motions driven by wave equations. (Italian summary) **90g:35170**
Sarafyan, V. V. Weak convergence of measures and the asymptotic behavior of the Cauchy problem for systems of differential equations with a small parameter. **90h:35261**
Semenov, D. V. Averaging parabolic differential equations with random coefficients. (Russian) **90f:35215**
Srumova, F. V. Asymptotics of the energy emitted by randomly located oscillation sources. (Russian) **90f:35216**
Wolansky, G. Stochastic perturbations to conservative dynamical systems on the plane. I. Convergence of invariant distributions. **90b:35252**
— Stochastic perturbations to conservative dynamical systems on the plane. II. Recurrency conditions. **90b:35253**
Yagle, Andrew E. Connections between three-dimensional inverse scattering and linear least-squares estimation of random fields. **90a:35240**

Items with secondary classifications in 35R60

Achhab, M. E. (*with* Cherkaoui, S.) Stabilization of partially observed stochastic evolution systems. **90h:93113**
(Adamowicz, Z.) *see* **Sobczyk, Kazimierz, 90m:60078**
Albeverio, S. (*with* Høegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. **90i:35215**
Bagchi, Arunabha Boundary value processes: estimation and identification. **90k:93063**
Bensoussan, A. Homogenization of nonlinear elliptic systems with zero order term coupling. **90c:35016**
— (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**
Bhattacharya, Rabindra Nath (*with* Gupta, Vijay K.; Walker, Homer F.) Asymptotics of solute dispersion in periodic porous media. **90f:35113**
Blankenship, G. *see* **Bensoussan, A., 90i:93137**
Bonzani, I. (*with* Riganti, R.) On the probability density of random fields in continuum mechanics. **90b:60075**
Brenner, Howard *see* **Nitsche, Ludwig C., 90g:76090**
Brzeźniak, Z. (*with* Capiński, M.; Flandoli, Franco) A convergence result for stochastic partial differential equations. **90b:60073**
(Bychowska, I.) *see* **Sobczyk, Kazimierz, 90m:60078**
Capiński, M. *see* **Brzeźniak, Z.; et al., 90b:60073**
Carmona, René (*with* Nualart, D.) Random nonlinear wave equations: smoothness of the solutions. **90f:60112**
Cheremshantsev, S. E. Asymptotic completeness in a three-dimensional problem of scattering by a Brownian particle. **90k:35196**
— Asymptotic completeness in the problem of scattering by a Brownian particle. **90f:35158**
Cherkaoui, S. *see* **Achhab, M. E., 90h:93113**
Chow, Pao Liu Generalized solution of some parabolic equations with a random drift. **90i:60039**
Cruzeiro, Ana Bela Solutions et mesures invariantes pour des équations d'évolution stochastiques du type Navier-Stokes. (English summary) [Solutions and invariant measures for Navier-Stokes stochastic evolution equations] **90c:35161**
(Da Prato, G.) *see* **Métivier, Michel, 90a:60112**
Dorogovtsev, A. A. Boundary value problems for equations that contain linear stochastic differential operators. (Russian) **90k:60106**
Dunbar, S. R. A branching random evolution and a nonlinear hyperbolic equation. **90a:60183**
Flandoli, Franco *see* **Brzeźniak, Z.; et al., 90b:60073**
Fujita-Yashima, Hisao Example of a minimum-error problem for the stochastic Navier-Stokes equations. (Italian. English summary) **90f:35161**
Gérard, Patrick Regularization by averaging for solutions of partial differential equations. **90k:35051**
Gol′dshteĭn, B. G. (*with* Gol′dshteĭn, M. Sh.) Limit theorems for random potentials. (Russian) **90i:60019**
Gol′dshteĭn, M. Sh. *see* **Gol′dshteĭn, B. G., 90i:60019**

Gorodtsov, V. A. Diffusive spreading of localized hydrodynamic perturbations under the action of random forces. **90a:76056**
Grasman, Johan Asymptotic analysis of nonlinear systems with small stochastic perturbations. **90g:60053**
Griego, Richard J. (*with* Korzeniowski, Andrzej) On principal eigenvalues for random evolutions. **90b:60110**
Gupta, Vijay K. *see* **Bhattacharya, Rabindra Nath; et al., 90f:35113**
Gyöngy, I. On the approximation of stochastic partial differential equations. I. **90k:60117**
— On the approximation of stochastic partial differential equations. II. **90k:60118**
Haussmann, U. G. (*with* Pardoux, É.) Stochastic variational inequalities of parabolic type. **90k:60119**
Høegh-Krohn, Raphael *see* **Albeverio, S., 90i:35215**
Kazimierczyk, P. On the stochastic inverse problem for the heat conduction equation. **90h:80004**
Korzeniowski, Andrzej *see* **Griego, Richard J., 90b:60110**
Kotulski, Zbigniew Equations for the characteristic functional and moments of the stochastic evolutions with an application. **90g:60058**
Kravvaritis, D. (*with* Papageorgiou, Nikolaos S.) A random nonlinear multivalued evolution equation in Hilbert space. **90m:34032**
Krener, Arthur J. Reciprocal diffusions and stochastic differential equations of second order. **90b:60066**
Kuo, Hung-Ju (*with* Trudinger, Neil S.) Linear elliptic difference inequalities with random coefficients. **90m:65176**
Martinelli, Fabio (*with* Scoppola, Elisabetta) Small random perturbations of dynamical systems: exponential loss of memory of the initial condition. **90c:58166**
Métivier, Michel ★ Stochastic partial differential equations in infinite-dimensional spaces. **90a:60112**
Molchanov, S. A. (*with* Piterbarg, L. I.) Averaging in a problem of turbulent diffusion. (Russian) **90i:35151**
Nitsche, Ludwig C. (*with* Brenner, Howard) Eulerian kinematics of flow through spatially periodic models of porous media. **90g:76090**
Nualart, D. (*with* Zakai, Moshe) Generalized Brownian functionals and the solution to a stochastic partial differential equation. **90m:60076**
— *see also* **Carmona, René, 90f:60112**
Orsingher, Enzo On the maximum of Gaussian Fourier sine series connected with random vibrations. **90b:35140**
Ozawa, Shin Approximation of Green's function in a region with many obstacles. **90i:58197**
Papageorgiou, Nikolaos S. *see* **Kravvaritis, D., 90m:34032**
Papanicolaou, G. Wave propagation and heat conduction in random media. **90a:78009**
— Waves in one-dimensional random media. **90j:82004**
Pardoux, É. *see* **Haussmann, U. G., 90k:60119**
Piterbarg, L. I. *see* **Molchanov, S. A., 90i:35151**
Reimers, Mark One-dimensional stochastic partial differential equations and the branching measure diffusion. **90m:60077**
Riganti, R. *see* **Bonzani, I., 90b:60075**
Romanenko, E. Yu. (*with* Sharkovskiĭ, A. N.) Self-stochasticity in deterministic systems. (Russian. English summary) **90m:58139**
Scoppola, Elisabetta *see* **Martinelli, Fabio, 90c:58166**
Sękowska, Magdalena Méthode des fonctionnelles caractéristiques de la mécanique des milieux continus. (Polish summary) [The method of characteristic functionals in continuum mechanics] **90h:73011**
Sharkovskiĭ, A. N. *see* **Romanenko, E. Yu., 90m:58139**
Sobczyk, Kazimierz ★ Stochastic wave propagation. **90m:60078**
Stroock, Daniel W. Malliavin calculus and its applications to partial differential equations. (Chinese. English summary) **90a:60104**
Trudinger, Neil S. *see* **Kuo, Hung-Ju, 90m:65176**
Walker, Homer F. *see* **Bhattacharya, Rabindra Nath; et al., 90f:35113**
Zakai, Moshe *see* **Nualart, D., 90m:60076**

35R99 None of the above, but in this section

Klimenko, S. S. *see* **Vityuk, A. N., 90e:35175**
Teodoru, Georgeta Le problème de Picard pour une équation aux dérivées partielles multivoque. (Romanian summary) [The Picard problem for a multivalued partial differential equation] **90f:35217**
— Approximation of the solution of the Darboux problem for the equation $\partial^2 z/\partial x \partial y \in F(x, y, z)$. **90f:35218**
Vityuk, A. N. (*with* Klimenko, S. S.) The averaging of partial differential inclusions with a measurable right-hand side. (Russian) **90e:35175**

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Canavati, José A. (*with* Fetter, Helga) Decomposition of solenoidal vector fields. (Spanish) **90d:35065**
Fetter, Helga *see* **Canavati, José A., 90d:35065**
Klimov, V. S. On the problem of periodic solutions of operator differential inclusions. **90h:47109**
Ktitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
Panchenkov, A. N. Extremal boundary layers. (Russian) **90g:49018**
Teodoru, Georgeta The Cauchy problem for a Lipschitzian hyperbolic multivalued equation. **90m:35131**
— Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Goursat problem associated to a multivalued equation. **90m:35133**
— The Picard problem associated with a Lipschitzian hyperbolic multivalued equation. (Romanian summary) **90m:35132**

35Sxx Pseudodifferential operators [see also 47G05, 58G15]

Items with secondary classifications in 35Sxx

Rempel, S. (*with* Schulze, B.-W.) ★ Asymptotics for elliptic mixed boundary problems. **90h:35083**
Schulze, B.-W. *see* **Rempel, S., 90h:35083**

35S05 General theory

Berhanu, S. Hypo-analytic pseudodifferential operators. **90e:35176**
— Microlocal hypo-analyticity and hypo-analytic pseudodifferential operators. **90e:35177**
Boev, Toshko A class of pseudodifferential operators. (Russian summary) **90e:35178**
Bony, Jean-Michel (*with* Lerner, N.) Quantification asymptotique et microlocalisations d'ordre supérieur. I. [Asymptotic quantization and higher-order microlocalizations. I] **90k:35276**
Dencker, N. The propagation of singularities for pseudo-differential operators with self-tangential characteristics. **90i:35297**
Golse, F. Quelques résultats de moyennisation pour les équations aux dérivées partielles. [Some averaging results for partial differential equations] **90m:35214**
Helffer, B. (*with* Nourrigat, J.) Remarques sur le principe d'incertitude. [Remarks on the uncertainty principle] **90b:35254**
Hörmander, Lars Continuity of pseudo-differential operators of type 1, 1. **90a:35241**
Hounie, Jorge ★ Introdução aos operadores pseudo-diferenciais. (Portuguese) [Introduction to pseudodifferential operators] **90d:35315**
Ishikawa, Yasushi Remarks on transmission, antitransmission and antilocal properties for sums of stable generators. **90c:35206**
Jiang, Lu Min Local regular solutions to analytic pseudodifferential equations of Fuchs type. (Chinese. English summary) **90i:35298**
Kataoka, Kiyômi Quasipositivity for pseudodifferential operators and microlocal energy methods. **90c:35207**
Lerner, N. Sufficiency of condition (ψ) for local solvability in two dimensions. **90a:35242**
— *see also* **Bony, Jean-Michel, 90k:35276**
Nishitani, Tatsuo Une classe d'opérateurs hyperboliques à caractéristiques multiples. (English summary) [A class of hyperbolic operators with multiple characteristics] **90c:35208**
Nourrigat, J. *see* **Helffer, B., 90b:35254**
Piriou, Alain Calcul symbolique non linéaire pour une onde conormale simple. (English summary) [Nonlinear symbolic calculus for a simple conormal wave] **90c:35209**
Podol′skiĭ, V. E. Regularized traces of some pseudodifferential operators on the circle. **90c:35210**
Popelyukhin, A. S. Local solvability of pseudo-differential operators with double characteristics. **90f:35219**
Roberts, Gary B. A necessary condition for the solvability of certain operators with multiple characteristics. **90i:35299**
Rodino, Luigi Pseudodifferential operators with multiple characteristics and Gevrey classes. (*see* **90m:35003**)
Tervo, J. On the spectra of singularities of pseudo-differential equations. **90f:35220**
Uchikoshi, Keisuke Construction of the solutions of microhyperbolic pseudodifferential equations. **90a:35243**
Umarov, S. R. On the well-posedness of systems of pseudodifferential equations with analytic symbols. (Russian) **90m:35215**
Unterberger, A. Opérateurs pseudodifférentiels et rélativité. [Pseudodifferential operators and relativity] (*see* **90d:35005**)
— L'analyse de Klein-Gordon. (English summary) [Klein-Gordon analysis] **90b:35255**

Items with secondary classifications in 35S05

Abdullah, Saleh (*with* Hussein, D.) Partially hypoelliptic pseudo-differential operators in spaces of generalized distributions. (Arabic summary) **90f:35042**
Andreev, Aleksandr Sergeevich Spectral asymptotics for compact pseudodifferential operators on a Euclidean set. **90g:35122**
Baaj, Saad Calcul pseudo-différentiel et produits croisés de C^*-algèbres. I. (English summary) [Pseudodifferential calculus and crossed products of C^*-algebras. I] **90a:46171**
— Calcul pseudo-différentiel et produits croisés de C^*-algèbres. II. (English summary) [Pseudodifferential calculus and crossed products of C^*-algebras. II] **90a:46172**
Bourdaud, Gérard Une algèbre maximale d'opérateurs pseudo-différentiels de type 1, 1. [A maximal algebra of pseudodifferential operators of type 1, 1] **90k:47104**
— (*with* Meyer, Y.) Inégalités L^2 précisées pour la classe $S^0_{0,0}$. (English summary) [Improved L^2 inequalities for the class $S^0_{0,0}$] **90h:47092**
Cardoso, Fernando (*with* Mendoza, Ramón) The spectral distribution of a globally elliptic operator. **90b:35175**
Chebotarëv, A. M. *see* **Konstantinov, A. A.; et al., 90h:35053**
Chemin, Jean-Yves Interaction contrôlée dans les équations aux dérivées partielles non linéaires. (English summary) [Controlled interaction in nonlinear partial differential equations] **90j:35144**
Cicognani, M. Existence, uniqueness and propagation of the regularity of the solution of the Cauchy problem for some strictly hyperbolic operators with Lipschitz coefficients with respect to time. (Italian. English summary) **90e:35105**
Cummins, Thomas E. A pseudodifferential calculus associated to 3-step nilpotent groups. **90c:58176**
Danilov, V. G. (*with* Zhevandrov, P. N.) Maslov's method for constructing combined asymptotics for h-pseudodifferential equations. **90i:35061**
Dencker, N. The propagation of polarization in double refraction. **90d:58150b**
— On the propagation of polarization in conical refraction. **90d:58150a**
Filippov, O. G. Reduction of pseudodifferential operators with bounded symbols to operators over C^*-algebras on compact manifolds. **90k:58219**
— *see also* **Mishchenko, A. S., 90m:58206**
Fulling, S. A. (*with* Kennedy, Gerard) The resolvent parametrix of the general elliptic linear differential operator: a closed form for the intrinsic symbol. **90b:58260**
Gérard, Patrick Regularization by averaging for solutions of partial differential equations. **90k:35051**
(**Hoksbergen, R. A. M.**) *see* **Plamenevskiĭ, B. A., 90h:47098**
Hussein, D. *see* **Abdullah, Saleh, 90f:35042**

Kajitani, Kunihiko (*with* Wakabayashi, Seiichiro) Microhyperbolic operators in Gevrey classes. **90h:35013**
Kennedy, Gerard *see* **Fulling, S. A., 90b:58260**
Khrennikov, A. Yu. Superanalysis: theory of generalized functions and pseudodifferential operators. (Russian. English summary) **90f:58019b**
— Infinite-dimensional pseudodifferential operators. **90e:47046**
— Functional superanalysis. **90f:58019a**
Kochubeĭ, A. N. Parabolic pseudodifferential equations, hypersingular integrals and Markov processes. **90c:60048**
Konstantinov, A. A. (*with* Maslov, V. P.; Chebotarëv, A. M.) Drift of boundary conditions for partial differential equations. **90h:35053**
Kozhukhar′, P. A. On the finiteness of the discrete spectrum of some matrix pseudodifferential operators. (Russian) **90j:47067**
Kutev, Nikolaĭ D. *see* **Popivanov, Pet″r R., 90i:35005**
Lascar, Bernard Propagation des singularités Gevrey pour des opérateurs hyperboliques. [Propagation of Gevrey singularities for hyperbolic operators] **90e:35009**
Lewis, Jeff E. Layer potentials for elastostatics and hydrostatics in curvilinear polygonal domains. **90k:35085**
Li, De Ning The L^2-boundedness of pseudo-differential operators with nonsmooth coefficient symbols. **90h:47097**
Liess, Otto (*with* Rodino, Luigi) Microlocal analysis for inhomogeneous Gevrey classes. **90b:35011**
Lyakhov, L. N. The Fourier-Bessel transform of a kernel of a singular integral operator that is generated by a generalized shift. (Russian) **90c:42024**
Maslov, V. P. *see* **Konstantinov, A. A.; et al., 90h:35053**
Mendoza, Ramón *see* **Cardoso, Fernando, 90b:35175**
Meyer, Y. *see* **Bourdaud, Gérard, 90h:47092**
Mishchenko, A. S. (*with* Filippov, O. G.) Reduction of elliptic operators with almost periodic coefficients to operators on compact manifolds. (Russian) **90m:58206**
Mohamed, Abdérémane Comportement asymptotique, avec estimation du reste, des valeurs propres d'une classe d'opérateurs pseudo-différentiels sur $\mathbf{R}^n$. [Asymptotic behavior, with remainder estimates, of the eigenvalues of a class of pseudodifferential operators on $\mathbf{R}^n$] **90i:35202**
Päivärinta, L. (*with* Rempel, S.) A deconvolution problem with the kernel $1/|x|$ on the plane. **90e:47049**
Plamenevskiĭ, B. A. ★ Algebras of pseudodifferential operators. **90h:47098**
— (*with* Senichkin, V. N.) The spectrum of an algebra of pseudodifferential operators with piecewise smooth symbols. **90d:58151**
Popivanov, Pet″r R. (*with* Kutev, Nikolaĭ D.) On the existence, uniqueness and smoothness of the solutions of some classes of nonlinear partial differential equations. **90i:35005**
Rabinovich, V. S. The Fredholm property of pseudodifferential operators on $\mathbf{R}^n$ in the scale of spaces $L_{2,p}$. **90b:47092**
Rempel, S. *see* **Päivärinta, L., 90e:47049**
Rodino, Luigi *see* **Liess, Otto, 90b:35011**
Sánchez-Calle, Antonio L^p estimates for degenerate elliptic equations. **90h:35105**
Senichkin, V. N. *see* **Plamenevskiĭ, B. A., 90d:58151**
Sohrab, Houshang H. Fredholm theory of pseudodifferential C^*-algebras on noncompact Riemannian manifolds. **90k:47109**
Su, Wei Yi Pseudodifferential operators in Besov spaces over local fields. **90h:47100**
Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**
Tervo, J. ★ Some algebras of Fourier series operators related to pseudo-differential operators. **90a:47134**
— On $\mathscr{B}_{p,k}$-boundedess and compactness of linear pseudo-differential operators. (German and Russian summaries) **90b:47094**
— On essential maximality of linear pseudo-differential operators. **90j:47071**
Tulovsky, Vladimir On the second subprincipal symbol of a pseudodifferential operator. **90e:58152**
Unterberger, A. Analyse harmonique et analyse pseudo-différentielle du cône de lumière. (English summary) [Harmonic analysis and pseudodifferential analysis of the light cone] **90d:58152**
Vaillant, Jean Léon Conditions d'hyperbolicité pour les systèmes à multiplicité constante, de rang pouvant varier. [Hyperbolicity conditions for systems with constant multiplicity whose rank may vary] **90m:35114**
Wakabayashi, Seiichiro *see* **Kajitani, Kunihiko, 90h:35013**
Wendt, W. D. The reduced operators of singularly perturbed Wiener-Hopf matrices. **90b:47095**
Widom, Harold On a class of integral operators on a half-space with discontinuous symbol. **90m:47068**
Wojciechowski, Krzysztof P. On the Calderón projections and spectral projections of the elliptic operators. **90i:58187**
Wong, M. W. The spectrum of a one-dimensional pseudo-differential operator. **90d:47057**
Yabuta, Kôzô Sharp function estimates for a class of pseudo-differential operators. **90g:47095**
Yagdzhyan, K. A. Necessary conditions for the well-posedness of the Cauchy problem for operators with multiple characteristics. **90j:35005**
Yamazaki, Masao A quasi-homogeneous version of the microlocal analysis for nonlinear partial differential equations. **90d:35010**
— The weighted L^p-boundedness of product-type pseudodifferential operators. **90j:47072**
Zelditch, Steven Selberg trace formulae, pseudodifferential operators, and geodesic periods of automorphic forms. **90e:11083**
Zhevandrov, P. N. *see* **Danilov, V. G., 90i:35061**

35S10 Initial value problems

Danilov, V. G. Well-posedness of h-pseudodifferential equations in the class of asymptotics of exponential type. (Russian) **90c:35211**
Drin′, Ya. M. *see* **Èĭdel′man, S. D., 90j:35204**
Èĭdel′man, S. D. (*with* Drin′, Ya. M.) On a theory of systems of parabolic pseudodifferential equations. (Russian. English summary) **90j:35204**

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Cattabriga, L. (*with* Mari, D.) Parametrix of infinite order on Gevrey spaces to the Cauchy problem for hyperbolic operators with one constant multiple characteristic. **90d:35169**
Gourdin, Daniel Problème de Cauchy faiblement hyperbolique. [The weakly hyperbolic Cauchy problem] **90a:35131**
Jian, Su Wen The Cauchy problem for a class of weakly hyperbolic pseudodifferential equations with singular coefficients. (Chinese) **90j:35129**
Ktitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
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Geronimo, J. S. On the spectra of infinite-dimensional Jacobi matrices. **90j:47037**
Hankerson, Darrel (*with* Peterson, Allan C.) A classification of the solutions of a difference equation according to their behavior at infinity. **90b:39004**
Khodzhaĭ, I. Difference equations with oscillating coefficients on the line. (Russian. English and Serbo-Croatian summaries) **90j:39001**
Kliokys, E. *see* **Kulhavý, R., 90c:93091**
Kulhavý, R. (*with* Kliokys, E.) Tracking of time-varying parameters in delta models. (Russian summary) **90c:93091**
Kuznetsov, Yuriĭ Alekseevich *see* **Bespalov, A. N., 90a:65216**
Lupaş, Alexandru *see* **Lupaş, Luciana, 90a:41020**
Lupaş, Luciana (*with* Lupaş, Alexandru) Polynomials of binomial type and approximation operators. (Romanian summary) **90a:41020**
Magnus, Alphonse P. Associated Askey-Wilson polynomials as Laguerre-Hahn orthogonal polynomials. **90d:33008**
Mamedov, Kh. R. Problems in scattering theory for systems of first-order difference equations on the whole axis. (Russian) **90e:47028**
Micchelli, Charles A. *see* **Dahmen, Wolfgang, 90m:41020**
Peterson, Allan C. *see* **Hankerson, Darrel, 90b:39004**
Proskurowski, Włodzimierz Remarks on spectral equivalence of certain discrete operators. **90h:65170**
Reach, Michael Generating difference equations with the Darboux transformation. **90a:39005**
Teptin, A. L. On the sign of the Green difference function. **90d:39005**
Veselov, A. P. Integrable systems with discrete time, and difference operators. **90a:58081**

39A99 None of the above, but in this section

Lee, E. T. Y. A remark on divided differences. **90i:39008**
Thandapani, E. A sharp upper bound for discrete inequalities of Gronwall-Bellman type. **90f:39010**

Items with secondary classifications in 39A99

Dorogovtsev, A. Ya. (*with* Le Vin′ Tkhuan) The existence of periodic and stationary regimes of discrete dynamical systems in a Banach space. (Russian. English summary) **90f:60114**
Le Vin′ Tkhuan *see* **Dorogovtsev, A. Ya., 90f:60114**

39Bxx Functional equations [see also 30D05]

Crstici, Borislav *see* **Neagu, Mihai, 90d:39008**
Neagu, Mihai (*with* Crstici, Borislav) Functional equations in distributions. **90d:39008**

Items with secondary classifications in 39Bxx

Gutkin, E. Integrable many-body problems and functional equations. **90f:58085**

Items listed otherwise than by author

Graz ★ Selected topics in functional equations. **90d:39001**
Selected topics in functional equations ★ Selected topics in functional equations. **90d:39001**
Seminar:
  Functional Equations ★ Selected topics in functional equations. **90d:39001**

39B05 General

Bykov, N. A. Solvability of functional equations in $\mathbf{R}^n$. (Russian) (Not in MR)
Crnjac, Miljenko (*with* Miller, Harry I.; Živaljević, Boško) Applications of the zero-one law to problems connected with Cauchy's functional equation. **90h:39013**
Li, Wen Rong (*with* Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) **90h:39014**
Miller, Harry I. *see* **Crnjac, Miljenko; et al., 90h:39013**
Petruska, G. On a functional equation with retarded mean. **90f:39011**
Si, Jian Guo *see* **Li, Wen Rong, 90h:39014**
Živaljević, Boško *see* **Crnjac, Miljenko; et al., 90h:39013**

Items with secondary classifications in 39B05

Azad, N. (*with* Thaheem, A. B.) On the operator equation $\alpha+\alpha^{-1}=\beta+\beta^{-1}$. II. (Serbo-Croatian summary) **90f:47059**
Dobbs, David E. A characterization of the tangent function. **90f:26001**
(Dravecký, J.) *see* **Smítal, J., 90c:39001**
Jarczyk, Witold Asymptotic behaviour of positive solutions of a recurrent equation. **90m:39006**
Parnami, J. C. (*with* Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. **90e:39012**
Reich, Ludwig On families of commuting formal power series. **90k:30042**
Singh, Harshinder *see* **Parnami, J. C.; et al., 90e:39012**
Smítal, J. ★ On functions and functional equations. **90c:39001**
Thaheem, A. B. *see* **Azad, N., 90f:47059**
Vasudeva, H. L. *see* **Parnami, J. C.; et al., 90e:39012**

39B10 Equations containing iterates, equations of rank one

Cannizzo, A. Extension theorems for integral representations of solutions of a functional equation. **90m:39018**
Crstici, Borislav *see* **Neagu, Mihai, 90f:39012**
Darsow, W. F. (*with* Frank, M. J.; Kairies, Hans-Heinrich) Errata: "Functional equations for a function of van der Waerden type". **90h:39015b**
— *see also* **Kairies, Hans-Heinrich; et al., 90h:39015a**
Frank, M. J. *see* **Kairies, Hans-Heinrich; et al., 90h:39015a** *and* **Darsow, W. F.; et al., 90h:39015b**
Kairies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] **90b:39013**
— (*with* Darsow, W. F.; Frank, M. J.) Functional equations for a function of van der Waerden type. (Serbo-Croatian summary) **90h:39015a**
— *see also* **Darsow, W. F.; et al., 90h:39015b**
Kuczma, Marek A generic property of a linear functional equation. (Polish summary) **90g:39012**
Neagu, Mihai (*with* Crstici, Borislav) About a functional characterization of polynomials. (Romanian summary) **90f:39012**
Smítal, J. On Darboux solutions of the Euler's equation. **90j:39007**
Wilder, B. E. Inverse limit means are not preserved under homeomorphisms. **90j:39008**
Zdun, M. C. On simultaneous Abel's equations. **90m:39019**
Zhang, Wei Nian Stability of the solution of the iterated equation $\sum_{i=1}^{n}\lambda_i f(x)=F(x)$. **90e:39010**
— On the differentiable solutions of the iterated equation $\sum_{i=1}^{n}\lambda_i f^i(x)=F(x)$. (Chinese) **90i:39009**

Items with secondary classifications in 39B10

Azarina, Yu. V. Invariant analytic curves for entire functions. **90j:30038**
Cheng, Bao Long The continual differentiable peak-unimodal solutions of Feigenbaum's functional equations. **90m:58130**
Czerni, Marek Stability of normal regions for linear homogeneous functional equations. **90b:39018**
Dankiewicz, Kazimierz On approximate solutions of a functional equation in the class of differentiable functions. **90f:39015**
Gokhman, A. O. Smooth symmetric functions. **90h:26017**
Haruki, H. An improvement of the Nevanlinna-Pólya theorem. **90a:30076**
Jarczyk, Witold On continuous functions which are additive on their graphs. **90j:39009**
McGuire, J. B. *see* **Thompson, C. J., 90c:58134**
Petek, Peter On the iterative solutions of quadratic equations. (Slovenian summary) **90j:58068**
Reich, Ludwig Über ein Problem von J. Schwaiger und Z. Moszner betreffend die Vertauschbarkeit von einparametrigen Automorphismengruppen formaler Potenzreihenringe. (English summary) [On a problem of J. Schwaiger and Z. Moszner concerning the exchangeability of one-parameter automorphism groups of rings of formal power series] **90f:13013**
Segal, S. L. Iterative characterizations of powers and exponentials. **90j:30042**
Sullivan, Dennis Quasiconformal homeomorphisms in dynamics, topology, and geometry. **90a:58160**
Thompson, C. J. (*with* McGuire, J. B.) Asymptotic and essentially singular solutions of the Feigenbaum equation. **90c:58134**

39B20 Equations for one unknown function of one variable, rank greater than one

Baron, Karol On a problem of R. Schilling. **90g:39013**
— On the continuous solutions of the Gołąb-Schinzel equation. **90i:39010**
Borelli Forti, Costanza Redundancy conditions for the functional equation $f(k(t)+h(t))=f(k(t))+f(h(t))$. (Italian. English summary) **90g:39014**
Choczewski, Bogdan Note on discontinuous solutions of a functional equation. **90e:39011**
— (*with* Kuczma, Marek) A remark on doubly stochastic measures and functional equations. **90f:39013**
Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. **90a:39010**
Gądek, Barbara (*with* Gądek, Jerzy) Inner product in the sense of Aczél. (Polish summary) **90g:39015**
Gądek, Jerzy *see* **Gądek, Barbara, 90g:39015**
Gajda, Zbigniew (*with* Miller, Harry I.) On quadratic functionals and some properties of Hamel bases. **90m:39020**
Jarczyk, Witold On continuous functions which are additive on their graphs. **90j:39009**
Kairies, Hans-Heinrich Bemerkungen zu einem Existenz- und Eindeutigkeitsproblem von W. Walter aus dem Gebiet der Differenzengleichungen. (English summary) [Remarks on an existence and uniqueness problem of W. Walter in the area of difference equations] **90h:39016**
Kannappan, Pl. (*with* Sahoo, P. K.) On a functional equation connected to sum form nonadditive information measures on an open domain. II. (Serbo-Croatian summary) **90c:39013**
— (*with* Sahoo, P. K.) On the general solution of a functional equation connected to sum form information measures on open domain. II. **90d:39009**
Kostyrko, Pavel On a local form of a functional equation with the harmonic mean. (Russian and Slovak summaries) **90g:39016**
Kuczma, Marek *see* **Choczewski, Bogdan, 90f:39013**
Li, Wen Rong *see* **Si, Jian Guo, 90c:39016**
Malenica, Mirjana Some special examples of regular transformations. (Serbo-Croatian summary) **90c:39014**
— (*with* Perić, Veselin) A solution of the functional equation $\varphi(x)+\varphi(f(x))=G(x)$. (Serbo-Croatian. English summary) **90c:39015**
Marenich, A. S. Construction of asymptotic expansions of solutions to functional equations and to systems of such by the method of Lie series. (Russian) (*see* **90i:00001**)
Miller, Harry I. *see* **Gajda, Zbigniew, 90m:39020**
Müller, Winfried D. U. Die Funktionalgleichung des geometrischen Mittels. [The functional equation of the geometric mean] (Not in MR)
Parnami, J. C. (*with* Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. **90e:39012**
Perić, Veselin *see* **Malenica, Mirjana, 90c:39015**
Radu, Viorel Some remarks on logarithms and exponentials. **90j:39010**
Sahoo, P. K. *see* **Kannappan, Pl., 90c:39013** *and* **90d:39009**
Si, Jian Guo (*with* Li, Wen Rong) On the existence and approximation of continuous solutions to linear functional equations. (Chinese. English summary) **90c:39016**

Singh, Harshinder *see* **Parnami, J. C.; et al., 90e:39012**
Trench, William F. Efficient application of the Schauder-Tychonoff theorem to functional perturbations of $x^{(n)} = 0$. **90d:39010**
Vasudeva, H. L. *see* **Parnami, J. C.; et al., 90e:39012**

Items with secondary classifications in 39B20

Crnjac, Miljenko (*with* Miller, Harry I.; Živaljević, Boško) Applications of the zero-one law to problems connected with Cauchy's functional equation. **90h:39013**
Dobbs, David E. A characterization of the tangent function. **90f:26001**
Erëmenko, A. È. Some functional equations connected with the iteration of rational functions. (Russian) **90m:30030**
Fenyő, I. (*with* Paganoni, L.) A functional equation which characterizes the Jacobian $\mathrm{sn}(z,k)$ functions. (Italian summary) **90b:30028**
— (*with* Paganoni, L.) A functional equation from the theory of Jacobian elliptic functions. (Italian. English summary) **90d:30075**
Ispas, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) **90c:45001**
Jiong, Jiang (*with* Zhu, Shan An) Numerical solution for a class of open-loop differential games via the shifted Chebyshev polynomial approximation. **90i:93047**
Kuchko, L. P. Linear functional equations with variable coefficients. **90c:58169**
Lehmer, D. H. A new approach to Bernoulli polynomials. **90c:11014**
Li, Wen Rong (*with* Si, Jian Guo) Continuous solutions and analytic solutions of two classes of functional equations. (Chinese) **90h:39014**
Miller, Harry I. *see* **Crnjac, Miljenko; et al., 90h:39013**
Paganoni, L. *see* **Fenyő, I., 90b:30028** *and* **90d:30075**
Paganoni Marzegalli, Stefania Functional equations associated with Jacobian elliptic functions. (Italian. English summary) **90b:33006**
Si, Jian Guo *see* **Li, Wen Rong, 90h:39014**
Sibuya, Y. Nontrivial entire solutions of the functional equation $f(\lambda) + f(\omega\lambda)f(\omega^{-1}\lambda) = 1$, $\omega^5 = 1$. **90c:30039**
Zhang, Wei Nian On the differentiable solutions of the iterated equation $\sum_{i=1}^{n} \lambda_i f^i(x) = F(x)$. (Chinese) **90i:39009**
Zhu, Shan An *see* **Jiong, Jiang, 90i:93047**
Živaljević, Boško *see* **Crnjac, Miljenko; et al., 90h:39013**

39B30 Equations for several unknown functions of one variable, systems

Aczél, J. (*with* Kuczma, Marek) On two mean value properties and functional equations associated with them. **90k:39005**
— The state of the second part of Hilbert's fifth problem. **90h:39017**
Daróczy, Zoltán (*with* Kátai, Imre) On a functional equation with polynomials. **90b:39014**
Gu, Hua Min *see* **Lau, Ka Sing, 90j:39011**
Gulati, K. K. Some functional equations connected with entropy. **90c:39017**
Kátai, Imre *see* **Daróczy, Zoltán, 90b:39014**
Kuczma, Marek *see* **Aczél, J., 90k:39005**
Lau, Ka Sing (*with* Gu, Hua Min) A note on an integrated Cauchy functional equation. **90j:39011**
Paganoni, L. (*with* Paganoni Marzegalli, Stefania) Holomorphic solutions of an inhomogeneous Cauchy equation. **90e:39013**
Paganoni Marzegalli, Stefania *see* **Paganoni, L., 90e:39013**
Pelyukh, G. P. Representation of solutions of systems of nonlinear functional equations in a neighborhood of singular points. (Russian. English summary) **90f:39014**
Sándor, József On certain functional equations. **90c:39018**
Székelyhidi, László ★ On the Levi-Civita functional equation. **90d:39011**

Items with secondary classifications in 39B30

Berezanskiĭ, L. M. On the spectrum of the inner superposition operator. (Russian) **90i:47030**
Haruki, H. An improvement of the Nevanlinna-Pólya theorem. **90a:30076**
Kairies, Hans-Heinrich Ein System von Funktionalgleichungen vom verallgemeinerten Replikativitäts-Typ. [A system of functional equations of generalized replicativity type] **90b:39013**
Kostyrko, Pavel On a local form of a functional equation with the harmonic mean. (Russian and Slovak summaries) **90g:39016**
Tabor, Józef A Pexider equation on a small category. (Polish summary) **90j:39012**
Wilder, B. E. Inverse limit means are not preserved under homeomorphisms. **90j:39008**

39B40 Equations for functions of several variables

Acu, D. New generalizations for functional equation of Bertolino's type. (*see* **90d:00043**)
Aczél, J. (*with* Gronau, D.) On the Jabotinsky equations. (*see* **90f:00003**)
Adamaszek, Irena Solution of the generalized translation equation on some structures. **90a:39011**
Aggarwal, Uma *see* **Vinocha, O. P., 90b:39017**
Al-Rashed, Abdallah M. *see* **Hemdan, Hamdi T., 90d:39012**
Alsina, Claudi (*with* Benz, Walter) Proportion functions in three dimensions. **90h:39018**
Baker, John A. Functional equations, tempered distributions and Fourier transforms. **90k:39006**
Benvenuti, P. (*with* Lo Schiavo, M.) On the associativity equation on $\mathbf{R}^2$. (Italian summary) **90m:39021**
Benz, Walter *see* **Alsina, Claudi, 90h:39018**
Chung, J. K. (*with* Kannappan, Pl.; Ng, C. T.; Sahoo, P. K.) Measures of distance between probability distributions. **90b:39015**
Ebanks, B. R. On the equation $F(X) + M(X)G(X^{-1}) = 0$ on K^n. **90i:39011**
— Differentiable solutions of a functional equation of Székelyhidi. **90k:39007**
Fenyő, I. (*with* Paganoni, L.) On a rule of rational addition. (Italian) **90m:39022**
Filipescu, A. On a functional equation. (Romanian summary) **90g:39017**
Förg-Rob, Wolfgang On differentiable solutions of the translation equation. **90h:39019**
Gronau, D. *see* **Aczél, J.**, (**90f:00003**)
Hemdan, Hamdi T. (*with* Al-Rashed, Abdallah M.) On certain generalized functional equations. **90d:39012**
Kannappan, Pl. On a generalization of sum form functional equation. VII. **90d:39014**
— (*with* Sahoo, P. K.) Weighted entropy of degree β on open domain. **90b:39016**
— On a generalization of the sum form functional equation. VI. **90d:39013**
— (*with* Sander, Wolfgang) On entropies with the sum property on open domain. **90h:39020**
— *see also* **Chung, J. K.; et al., 90b:39015**
Kostyrko, Pavel Generalized Jensen's and Lobatchewski's functional equations and their local forms. (Serbo-Croatian summary) **90g:39018**
Lew, John S. A functional equation of Ih-Ching Hsu. **90i:39012**
Lo Schiavo, M. *see* **Benvenuti, P., 90m:39021**
Moszner, Zenon Une généralisation d'un résultat de J. Aczél et M. Hosszú sur l'équation de translation. [Generalization of a result of J. Aczél and M. Hosszú concerning the translation equation] **90e:39014**
Ng, C. T. *see* **Chung, J. K.; et al., 90b:39015**
Paganoni, L. *see* **Fenyő, I., 90m:39022**
Páles, Z. Remarks on generalized homogeneous deviation means. **90c:39019**
— (*with* Volkmann, Peter) Characterization of a class of means. **90k:39008**
Sablik, Maciej Conditional iteration semigroups. **90h:39021**
Sahoo, P. K. *see* **Chung, J. K.; et al., 90b:39015** *and* **Kannappan, Pl., 90b:39016**
Sander, Wolfgang *see* **Kannappan, Pl., 90h:39020**
Vinocha, O. P. (*with* Aggarwal, Uma) Generalization of functional equations. **90b:39017**
Volkmann, Peter *see* **Páles, Z., 90k:39008**

Items with secondary classifications in 39B40

Aczél, J. (*with* Dhombres, Jean) ★ Functional equations in several variables. **90h:39001**
Atdaev, S. A class of integro-differential equations of Volterra type. (Russian. English summary) **90c:45004**
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.) The solvability of quadratic equations in free products of free groups with cyclic amalgamation. **90h:20032**
Dhombres, Jean *see* **Aczél, J., 90h:39001**
Ebanks, B. R. (*with* Kannappan, Pl.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. **90a:39013**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr., 90h:20032**
Forte, B. (*with* Hughes, W. P.) A representation theorem for entropies with the branching property. **90h:94029**
Gronau, D. Some properties of the solutions of the translation equation in Banach spaces. **90h:39024**
Hughes, W. P. *see* **Forte, B., 90h:94029**
Kannappan, Pl. *see* **Ebanks, B. R.; et al., 90a:39013**
Ng, C. T. *see* **Ebanks, B. R.; et al., 90a:39013**
Sander, Wolfgang Information measures on the open domain. **90e:94012**

39B50 Functional equations on algebraic structures

Aczél, J. (*with* Gronau, D.) Iteration, translation, commuting, and differential equations. **90h:39022**
Craigen, R. (*with* Páles, Z.) The associativity equation revisited. **90g:39019**
Gajda, Zbigniew On stability of the Cauchy equation on semigroups. **90a:39012**
Ger, R. Some remarks on quadratic functionals. (Serbo-Croatian summary) **90k:39009**
Gronau, D. *see* **Aczél, J., 90h:39022**
Kurepa, S. On P. Volkmann's paper. (Serbo-Croatian summary) **90d:39015**
Páles, Z. *see* **Craigen, R., 90g:39019**
Székelyhidi, László On a linear functional equation. **90m:39023**
— The stability of the sine and cosine functional equations. **90m:39024**
Tabor, Józef A Pexider equation on a small category. (Polish summary) **90j:39012**

Items with secondary classifications in 39B50

Borelli Forti, Costanza (*with* Forti, Gian Luigi) On entire functions additive on graphs. **90h:30063**
Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. **90a:39010**
Ebanks, B. R. On the equation $F(X) + M(X)G(X^{-1}) = 0$ on K^n. **90i:39011**
Forti, Gian Luigi *see* **Borelli Forti, Costanza, 90h:30063**
Gajda, Zbigniew (*with* Ger, R.) Subadditive multifunctions and Hyers-Ulam stability. **90h:39009**
— On functional equations related to linear differential equations. **90i:39013**
Ger, R. *see* **Gajda, Zbigniew, 90h:39009**
Moszner, Zenon Une généralisation d'un résultat de J. Aczél et M. Hosszú sur l'équation de translation. [Generalization of a result of J. Aczél and M. Hosszú concerning the translation equation] **90e:39014**
Páles, Z. A Hahn-Banach theorem for separation of semigroups and its applications. **90m:46010**
Székelyhidi, László ★ On the Levi-Civita functional equation. **90d:39011**
Targoński, György (*with* Zdun, M. C.) ★ Substitution operators on L^p-spaces and their semigroups. **90e:47024**
Zdun, M. C. *see* **Targoński, György, 90e:47024**

39B60 Matrix functional equations

Items with secondary classifications in 39B60

Georgiou, D. A. Summable equivalence of difference equations. **90c:39004**
Moak, Daniel S. Combinatorial multinomial matrices and multinomial Stirling numbers. **90g:05013**

39B70 Functional equations on abstract spaces or structures

Dankiewicz, Kazimierz On approximate solutions of a functional equation in the class of differentiable functions. **90f:39015**

Ebanks, B. R. (*with* Kannappan, Pl.; Ng, C. T.) Recursive inset entropies of multiplicative type on open domains. **90a:39013**
Fochi, Margherita Functional equations on A-orthogonal vectors. **90f:39016**
Gajda, Zbigniew On functional equations related to linear differential equations. **90i:39013**
Ger, R. Christensen measurability and functional equations. **90h:39023**
Gronau, D. Some properties of the solutions of the translation equation in Banach spaces. **90h:39024**
Grosse-Erdmann, Karl-Goswin Regularity properties of functional equations and inequalities. **90f:39017**
Kannappan, Pl. *see* **Ebanks, B. R.; et al., 90a:39013**
Ng, C. T. *see* **Ebanks, B. R.; et al., 90a:39013**

Items with secondary classifications in 39B70

Aczél, J. (*with* Gronau, D.) Some differential equations related to iteration theory. **90b:35230**
Baron, Karol On the continuous solutions of the Gołąb-Schinzel equation. **90i:39010**
Forte, B. (*with* Hughes, W. P.) A representation theorem for entropies with the branching property. **90h:94029**
Gajda, Zbigniew On stability of the Cauchy equation on semigroups. **90a:39012**
Ger, R. (*with* Kominek, Z.) Boundedness and continuity of additive and convex functionals. **90i:46016**
Gronau, D. *see* **Aczél, J., 90b:35230**
Hmissi, Mohamed Cones de potentiels stables par produit et systèmes semi-dynamiques. (English summary) [Potential cones stable by product and semidynamical systems] **90k:31010**
Hughes, W. P. *see* **Forte, B., 90h:94029**
Kominek, Z. *see* **Ger, R., 90i:46016**
N'Guérékata, Gaston Mandata Some remarks on asymptotically almost automorphic functions. **90a:47101**
Parnami, J. C. (*with* Singh, Harshinder; Vasudeva, H. L.) On an exponential-cosine functional equation. **90e:39012**
Perri, U. Global extendibility of the solutions of parameter-dependent nonlinear equations. (Italian. English summary) **90a:35084**
Singh, Harshinder *see* **Parnami, J. C.; et al., 90e:39012**
Vasudeva, H. L. *see* **Parnami, J. C.; et al., 90e:39012**
Vukman, J. Some remarks on derivations in Banach algebras and related results. **90a:46120**

39B99 None of the above, but in this section

Dhombres, Jean Some recent applications of functional equations. **90e:39015**
Kalra, Savita (*with* Parnami, J. C.; Vasudeva, H. L.) A sine equation in Banach algebras. **90e:39016**
Parnami, J. C. *see* **Kalra, Savita; et al., 90e:39016**
Vasudeva, H. L. *see* **Kalra, Savita; et al., 90e:39016**

Items with secondary classifications in 39B99

Aminov, R. Kh. (*with* Gabdulkhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. **90b:45021**
Bézivin, J.-P. Solutions rationnelles de certaines équations fonctionnelles. [Rational solutions of some functional equations] **90c:11015**
Chambers, Ll. G. Note on the functional-differential equation $\sum_{m=-\infty}^{\infty} a_m y'(x+m\alpha) = f(x)$. **90g:34082**
Gabdulkhaev, B. G. *see* **Aminov, R. Kh., 90b:45021**
Girotto, Bruno (*with* Holzer, Silvano) Some de Finetti-Kolmogoroff-Nagumo type integral representation theorems for means on masses. (Italian summary) **90j:26028**
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39C05 Functional inequalities [see also 26Dxx]

Czerni, Marek Stability of normal regions for linear homogeneous functional equations. **90b:39018**
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Ger, R. Christensen measurability and functional equations. **90h:39023**
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40–XX Sequences, series, summability

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(Dubbey, John M.) *see* **Babbage, Charles, 90g:01062**

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Biography:
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40–06 Proceedings, conferences, etc.

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(Motornyĭ, V. P.) *see* **Investigations in current problems in summation and the approximation of functions and their applications, 90h:41001**

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40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Akbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) **90j:40001**
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40A15 Convergence and divergence of continued fractions [see also 30B70]

Bodnar, D. Ī. Analogues of conditions of Pringsheim convergence for branching continued fractions. (Russian. English summary) **90f:40002**

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40A20 Convergence and divergence of infinite products

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Gould, H. W. *see* **Gingold, H.; et al., 90i:40003**

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40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Bassali, W. A. On certain infinite series and definite integrals involving $\delta_n = (1 \cdot 3 \cdot 5 \cdots (2n-1))/(2 \cdot 4 \cdot 6 \cdots (2n))$. (Spanish summary) **90b:40005**

Baur, Gerhard (*with* Shawyer, Bruce) Best L^2-approximation of convergent moment series. **90i:40004**

Lamagna, Edmund A. *see* **Savio, Dominic Y.; et al., 90i:40005**

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40A30 Convergence and divergence of series and sequences of functions

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Ma, Zhong Bao Quasi-uniform convergence of series. (Chinese) **90f:40004**

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Wei, Yu Chuen Regularity of "F" method of summability of sequences. **90k:40001**

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Tsveich, S. D. *see* **Milovanović, Igor Ž.; et al., 90e:40003**

40A99 None of the above, but in this section

Lenard, Andrew A nonzero complex sequence with vanishing power-sums. **90i:40007**
Nanda, Sudarsan On sequences of fuzzy numbers. **90k:40002**

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Guerrero Casas, Flor María Vectorial composite transformation of sequences. (Spanish. English summary) **90a:65007**
Guthrie, J. A. (*with* Nymann, J. E.) The topological structure of the set of subsums of an infinite series. **90b:40010**
Nymann, J. E. *see* **Guthrie, J. A., 90b:40010**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Lepasson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) **90k:40003**

40Cxx General summability methods

40C05 Matrix methods

Ali Sarigöl, M. On absolutely equivalent of summability methods. **90e:40006**
Başar, Feyzi (*with* Öztürk, Ekrem) On generalized dual summability methods. **90g:40002**
— (*with* Çolak, Rıfat) Almost-conservative matrix transformations. (Turkish summary) **90m:40003**
Chandrasekhara Rao, K. Spaces of matrix operators. **90c:40002**
Çolak, Rıfat *see* **Başar, Feyzi, 90m:40003**
Connor, Jeff On strong matrix summability with respect to a modulus and statistical convergence. **90i:40008**
Davydov, N. A. (*with* Vlasenko, V. F.) A class of boundedly inefficient and completely inefficient normal conservative positive matrices. **90i:40009**
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Khare, Satya Prakash (*with* Tripathi, Virendra Kumar) Matrix summability of Jacobi series. **90j:40003**
Nanda, Sudarsan Matrix transformations in some sequence spaces. **90k:40004**
Obi, E. C. A new property of the Weierstrass primary factors. **90d:40003**
Okuyama, Yasuo On the absolute Riesz summability of orthogonal series. **90g:40004**
Orhan, C. (*with* Sarıgöl, M. Ali) On F-absolutely translative summability methods. **90i:40010**
Öztürk, Ekrem *see* **Başar, Feyzi, 90g:40002**
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Goĭkhman, V. È. Fields of summability and fields of boundedness of coregular matrices. I. (Russian) **90f:40005**
— Fields of summability and fields of boundedness of coregular matrices. (Russian) **90j:40007**
Maddox, I. J. Eigenvalues of absolute Cesàro matrices. **90f:40007**
Parameswaran, M. R. On some theorems for the logarithmic methods of summability. (Serbo-Croatian summary) **90i:40013**
Rath, D. A note on a class of matrix transformations. **90j:40008**
Spreng, Karl-Eugen On the monotonicity of saturation orders of saturated matrix methods. **90c:41050**

40C10 Integral methods

Kadets, V. M. A domain of sums of weakly convergent series. **90j:40004**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Loone, L. Semicontinuous sequential summation methods and their cores. (Russian. English summary) **90j:40005**

40C99 None of the above, but in this section

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Markiewicz, Teresa (*with* Rempulska, Lucyna) On the summability methods connected with the Dirichlet problem for an elliptic domain. **90m:40009**
Rempulska, Lucyna *see* **Markiewicz, Teresa, 90m:40009**

40Dxx Direct theorems on summability

40D05 General theorems

Al-Madi, Azmi K. On translativity of weighted mean summability methods. **90m:40004**
— Translativity of generalized Nörlund transformation. **90m:40005**
Luh, Yvonne Some matrix transformations between the sequence spaces $l(p)$, $l_\infty(p)$, $c_0(p)$, $c(p)$ and $w(p)$. **90g:40005**
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Ratti, J. S. Dirichlet product of summable series. **90m:40007**
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40D09 Structure of summability fields

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40D10 Tauberian constants and oscillation limits

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Borwein, David A Tauberian theorem concerning Dirichlet series. **90d:40005**

40D15 Convergence factors and summability factors

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Sikk, J. Matrix mappings for rate-space and $\mathscr{K}$-multipliers in the theory of summability. (Russian summary) **90k:40006**
Stieglitz, Michael *see* **Jakimovski, Amnon; et al., 90k:40012**
Sukla, I. (*with* Mohanty, P. C.) Absolute Riesz summability factors. **90j:40014**

40D20 Summability and bounded fields of methods

Chun, Chung Suh (*with* Freedman, Allen R.) A bounded consistency theorem for strong summabilities. **90i:40011**
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— Fields of summability and fields of boundedness of coregular matrices. (Russian) **90j:40007**
Orhan, C. (*with* Sarıgöl, M. Ali) On F-absolutely translative summability methods. **90i:40010**
Sarıgöl, M. Ali *see* **Orhan, C., 90i:40010**

40D25 Inclusion and equivalence theorems

Al-Madi, Azmi K. Comparison theorems of two absolute weighted mean summability methods. **90g:40006**
Boos, Johann (*with* Neuser, R.) Quotient representations and the convexity of Cesàro means. **90c:40004**
Bor, H. A relation between two summability methods. **90i:40012**
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— Fields of summability and fields of boundedness of coregular matrices. (Russian) **90j:40007**
Neuser, R. *see* **Boos, Johann, 90c:40004**
Parameswaran, M. R. On some theorems for the logarithmic methods of summability. (Serbo-Croatian summary) **90i:40013**
Rath, D. A note on a class of matrix transformations. **90j:40008**
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Al-Madi, Azmi K. On absolute Rogosinski-Bernstein summability methods of different orders. **90j:40011**
Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. **90f:40006**
Borwein, David (*with* Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. **90d:40008**
Cass, F. P. *see* **Borwein, David; et al., 90d:40008**

Das, Gokulananda (*with* Guru, N.) Functional Nörlund methods. **90d:40014**
Guru, N. *see* **Das, Gokulananda, 90d:40014**
Jürimäe, E. The Zeller theorem for λ-summability. (Russian. English summary) **90g:40003**
Mishra, Babban Prasad (*with* Pathak, Sachchida Nand) Strong summability of functions based on $A(C,k)$ summability methods. **90j:40013**
Noll, Dominikus (*with* Stadler, Wolfgang) Sliding hump technique and spaces with the Wilansky property. **90k:46022**
Obi, E. C. A new property of the Weierstrass primary factors. **90d:40003**
Pathak, Sachchida Nand *see* **Mishra, Babban Prasad, 90j:40013**
Sayre, J. E. *see* **Borwein, David; et al., 90d:40008**
Sikk, J. Matrix mappings for rate-space and $\mathscr{K}$-multipliers in the theory of summability. (Russian summary) **90k:40006**
Somasundaram, D. Inclusion theorems on matrix transformations of some sequence spaces over non-Archimedian fields. IV. **90d:46104**
Stadler, Wolfgang *see* **Noll, Dominikus, 90k:46022**
Tali, A. A new family of generalized methods for Nörlund summability. (Russian. English summary) **90j:40015**

40D99 None of the above, but in this section

Guthrie, J. A. (*with* Nymann, J. E.) The topological structure of the set of subsums of an infinite series. **90b:40010**
Nymann, J. E. *see* **Guthrie, J. A., 90b:40010**
Toader, Gh. Discrete convexity cones. **90c:40005**

Items with secondary classifications in 40D99

Başar, Feyzi (*with* Öztürk, Ekrem) On generalized dual summability methods. **90g:40002**
Öztürk, Ekrem *see* **Başar, Feyzi, 90g:40002**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Armitage, David H. (*with* Maddox, I. J.) A new type of Cesàro mean. **90i:40014**
Bernal González, Luis On a theorem of Hardy and Littlewood. **90b:40011**
Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. **90f:40006**
— Tauberian theorems in probability theory. **90m:40006**
Borwein, David (*with* Kratz, Werner) On relations between weighted mean and power series methods of summability. **90j:40009**
— A Tauberian theorem concerning Dirichlet series. **90d:40005**
Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) Multidimensional Abelian and Tauberian comparison theorems. (Russian) **90k:40007**
Kratz, Werner (*with* Stadtmüller, Ulrich) Tauberian theorems for general J_p-methods and a characterization of dominated variation. **90d:40006**
— (*with* Stadtmüller, Ulrich) Tauberian theorems for J_p-summability. **90d:40007**
— *see also* **Borwein, David, 90j:40009**
Kwee, B. The relation between the Borel and Riesz methods of summation. **90g:40007**
Maddox, I. J. A Tauberian theorem for ordered spaces. **90i:40015**
— A Tauberian theorem for statistical convergence. **90g:40008**
— *see also* **Armitage, David H., 90i:40014**
Noll, Dominikus (*with* Stadler, Wolfgang) Weakening Tauberian conditions for summability methods. **90j:40010**
Parameswaran, M. R. On the Endl-type generalization of certain summability methods. **90i:40016**
Reimers, E. Equivalence of double sequences and Tauberian theorems. I. (Russian. English summary) **90i:40017**
Russell, Dennis Tauberian-type results for convolution of sequences. **90h:40003**
Stadler, Albert Ein Tauber-Satz mit Restglied für die Laplace-Transformation. [A Tauberian theorem with remainder term for the Laplace transformation] **90e:40007**
Stadler, Wolfgang *see* **Noll, Dominikus, 90j:40010**
Stadtmüller, Ulrich *see* **Kratz, Werner, 90d:40006** *and* **90d:40007**
Tammeraid, I. G. Kangro's theorem for gap series. (Russian. English summary) **90i:40018**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 90k:40007**

Items with secondary classifications in 40E05

Bashmakova, I. B. (*with* Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. **90i:42038**
Bourdon, Paul (*with* Shapiro, Joel H.; Sledd, William T.) Fourier series, mean Lipschitz spaces, and bounded mean oscillation. **90j:42011**
Bukin, K. A. A multidimensional Tauberian theorem with a remainder for the Laplace transform. (Russian) **90d:44002**
Essén, Matts Tauberian theorems, convolutions and some results of D. C. Russell. **90m:26027**
Flajolet, Philippe (*with* Odlyzko, Andrew M.) Singularity analysis of generating functions. **90m:05012**
Joó, István On some problems raised in connection with eigenfunction expansions. **90k:42008**
Odlyzko, Andrew M. *see* **Flajolet, Philippe, 90m:05012**
Shapiro, Joel H. *see* **Bourdon, Paul; et al., 90j:42011**
Skopina, M. A. *see* **Bashmakova, I. B., 90i:42038**
Sledd, William T. *see* **Bourdon, Paul; et al., 90j:42011**

40F05 Absolute and strong summability

Al-Madi, Azmi K. Partial results on translativity of absolute Rogosinski-Bernstein summability methods. **90g:40009**
— On absolute Rogosinski-Bernstein summability methods of different orders. **90j:40011**
Beekmann, Wolfgang (*with* Zeller, Karl) Positivity in absolute summability. **90h:40004**
Bor, H. On the absolute summability factors for infinite series. **90e:40008**
— On the $|\overline{N},p_n|$ summability factors of infinite series. **90i:40020**
— Absolute summability factors for infinite series. **90j:40012**
— (*with* Kuttner, B.) On the necessary conditions for absolute weighted arithmetic mean summability factors. **90i:40019**
— A note on some absolute summability methods. **90i:40021**
Borwein, David (*with* Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. **90d:40008**
Cass, F. P. *see* **Borwein, David; et al., 90d:40008**
Das, Gokulananda (*with* Patel, B. K.) Lacunary distribution of sequences. **90d:40009**
Devi, Prativa *see* **Mahapatra, P. C., 90c:40006**
Kuttner, B. *see* **Bor, H., 90i:40019**
Maddox, I. J. Eigenvalues of absolute Cesàro matrices. **90f:40007**
Mahapatra, P. C. (*with* Devi, Prativa) Absolute inclusion relation on Riesz summability. **90c:40006**
Malkowsky, Eberhard Matrix transformations in certain spaces of strongly Cesàro summable and bounded sequences. **90f:40008**
Mishra, Babban Prasad (*with* Pathak, Sachchida Nand) Strong summability of functions based on $A(C,k)$ summability methods. **90j:40013**
Mohanty, P. C. *see* **Sukla, I., 90j:40014**
Niinepuu, K. *see* **Soomer, V., 90g:40011**
Nurcombe, J. R. On absolute Nörlund and Abel summability. **90k:40008**
Patel, B. K. *see* **Das, Gokulananda, 90d:40009**
Pathak, H. K. On the generalized absolute Nörlund summability factors of infinite series. **90e:40009**
Pathak, Sachchida Nand *see* **Mishra, Babban Prasad, 90j:40013**
Poluyanova, M. F. Conditions for absolute summability of the Cauchy product of two numerical series. (Russian) (*see* **90m:00015**)
Ratti, J. S. Dirichlet product of summable series. **90m:40007**
Rautela, S. S. On the absolute summability by logarithmic means of the ultraspherical series. **90d:40010**
Samarskaya, T. A. Absolute and uniform convergence of expansions in root functions of a nonlocal boundary value problem of the first kind. **90i:40022**
Sarıgöl, M. Ali On $|C,1|_k$ summability factors. **90b:40012**
Savaş, Ekrem On strong σ-convergence. **90i:40023**
Sayre, J. E. *see* **Borwein, David; et al., 90d:40008**
Singh, Niranjan Absolute Riesz summability of a Dirichlet series. **90g:40010**
Soomer, V. (*with* Niinepuu, K.) Sequential methods for strong summation, and multipliers. (Russian. English summary) **90g:40011**
Sukla, I. (*with* Mohanty, P. C.) Absolute Riesz summability factors. **90j:40014**
Sulaiman, W. T. On $|C,1|$-summability of Laguerre series at origin. **90d:40011**
Szalay, I. On the strong Cesàro summability of double orthogonal series. **90b:40013**
Tripathi, L. M. (*with* Tripathi, V. N.; Yadav, S. J.) On $|\overline{N},p_n|_k$ summability factors of an infinite series. **90b:40014**
Tripathi, V. N. *see* **Tripathi, L. M.; et al., 90b:40014**
Yadav, S. J. *see* **Tripathi, L. M.; et al., 90b:40014**
Zeller, Karl *see* **Beekmann, Wolfgang, 90h:40004**

Items with secondary classifications in 40F05

Bor, H. A relation between two summability methods. **90i:40012**
Chun, Chung Suh (*with* Freedman, Allen R.) A bounded consistency theorem for strong summabilities. **90i:40011**
Connor, Jeff On strong matrix summability with respect to a modulus and statistical convergence. **90i:40008**
Firlej, Barbara (*with* Rempulska, Lucyna) On the absolute and strong summability of numerical and orthogonal series by the methods connected with the Dirichlet problem for an elliptic domain. **90m:40010**
Freedman, Allen R. *see* **Chun, Chung Suh, 90i:40011**
Jena, S. C. (*with* Padhi, Padmini) Absolute matrix summability of the allied series of a Fourier series. **90e:42017**
Kuttner, B. (*with* Rhoades, B. E.) Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. **90f:42007**
Padhi, Padmini *see* **Jena, S. C., 90e:42017**
Rempulska, Lucyna On the summability of numerical and orthogonal series by the (B,n)-method. **90b:40009**
— *see also* **Firlej, Barbara, 90m:40010**
Rhoades, B. E. *see* **Kuttner, B., 90f:42007**
Sarıgöl, M. Ali On $|\overline{N},P_n|_k$ summability factors. **90i:40025**
Waszak, A. Sets of approximable elements in double sequence spaces. **90h:46014**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Chandra, Prem (*with* Sharma, M. M.) A note on the absolute Euler summability of Legendre series. **90d:40012**
Dalela, A. K. *see* **Prakash, Ved; et al.,** (Not in MR)
Das, Gokulananda (*with* Nanda, Sudarsan) Functional limits. **90i:40024**
DeFranza, J. (*with* Fleming, D. J.) On the Bohr-Hardy criteria. **90a:40003**
Fleming, D. J. *see* **DeFranza, J., 90a:40003**
Khare, Satya Prakash (*with* Tripathi, Surendra Kumar) (N,p,q) summability of Jacobi series. **90g:40012**
Körle, H.-H. Some generalized harmonic and the Cesàro mean. **90m:40008**
Kuttner, B. (*with* Parameswaran, M. R.) A theorem on the representation of certain sequence spaces. **90c:40007**
Nanda, Sudarsan *see* **Das, Gokulananda, 90i:40024**
Panda, S. P. *see* **Samantaray, U. N., 90a:40004**

Pandey, G. S. Multipliers for $|C, l|$ summability of Jacobi series. **90g:40013**
Pandey, S. Multipliers for the convergence of Jacobi series in Banach spaces. **90g:40014**
Parameswaran, M. R. *see* **Kuttner, B., 90c:40007**
Prakash, Ved (*with* Verma, S. K.; Dalela, A. K.) On the uniform Nörlund summability of Legendre series. (Not in MR)
Rhoades, B. E. Matrix transformations of orthonormal series. **90d:40013**
Samantaray, U. N. (*with* Panda, S. P.) On the consistency of limitation methods for (N, p, q) summable sequences. **90a:40004**
Sarıgöl, M. Ali On $|\overline{N}, P_n|_k$ summability factors. **90i:40025**
Sharma, M. M. *see* **Chandra, Prem, 90d:40012**
Singh, K. N. On the uniform Nörlund summability of Legendre series. **90c:40008**
Sulaiman, W. T. Some multipliers for the $|C, 1|$ summability of Laplace series. **90k:40009**
Tali, A. A new family of generalized methods for Nörlund summability. (Russian. English summary) **90j:40015**
Tripathi, Surendra Kumar *see* **Khare, Satya Prakash, 90g:40012**
Trivedi, G. S. Absolute Cesàro summability of Laguerre series. (Hindi. English summary) **90g:40015**
Verma, S. K. *see* **Prakash, Ved; et al.,** (Not in MR)

Items with secondary classifications in 40G05

Al-Madi, Azmi K. Translativity of generalized Nörlund transformation. **90m:40005**
Armitage, David H. (*with* Maddox, I. J.) A new type of Cesàro mean. **90i:40014**
Beekmann, Wolfgang (*with* Zeller, Karl) Positivity in absolute summability. **90h:40004**
Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. **90f:40006**
Bor, H. Corrigendum: “On the absolute summability factors of infinite series” [Comm. Fac. Sci. Univ. Ankara Sér. A_1 Math. 33 (1984), no. 24, 193–197; MR 88m:40009]. **90b:40008**
— A relation between two summability methods. **90i:40012**
— Absolute summability factors for infinite series. **90j:40012**
— A note on some absolute summability methods. **90i:40021**
Borwein, David (*with* Cass, F. P.; Sayre, J. E.) On strong generalized Hausdorff summability. **90d:40008**
Cass, F. P. *see* **Borwein, David; et al., 90d:40008**
Das, Gokulananda (*with* Guru, N.) Functional Nörlund methods. **90d:40014**
— (*with* Patel, B. K.) Lacunary distribution of sequences. **90d:40009**
Găvruţa, P. On generalized Hausdorff operators. **90g:47046**
Guru, N. *see* **Das, Gokulananda, 90d:40014**
Hotta, G. C. (*with* Padhi, T. C.) A note on $|\overline{N}, p_n|$ summability of an associated conjugate series of a Fourier series. (Not in MR)
Jena, S. C. (*with* Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. **90b:42018**
Kuttner, B. (*with* Rhoades, B. E.) Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. **90f:42007**
Lepasson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) **90k:40003**
Maddox, I. J. A Tauberian theorem for ordered spaces. **90i:40015**
— *see also* **Armitage, David H., 90i:40014**
Nurcombe, J. R. On absolute Nörlund and Abel summability. **90k:40008**
Okutoyi, J. I. On the spectrum of C_1 as an operator on bv_0. **90j:47026**
Padhi, T. C. *see* **Hotta, G. C.,** (Not in MR)
Parameswaran, M. R. On the Endl-type generalization of certain summability methods. **90i:40016**
Patel, B. K. *see* **Das, Gokulananda, 90d:40009**
Pathak, H. K. On the generalized absolute Nörlund summability factors of infinite series. **90e:40009**
Rhoades, B. E. *see* **Kuttner, B., 90f:42007**
Sayre, J. E. *see* **Borwein, David; et al., 90d:40008**
Swamy, N. N. *see* **Jena, S. C., 90b:42018**
Szalay, I. On the strong Cesàro summability of double orthogonal series. **90b:40013**
Zeller, Karl *see* **Beekmann, Wolfgang, 90h:40004**

40G10 Abel, Borel and power series methods

Firlej, Barbara (*with* Rempulska, Lucyna) On the absolute and strong summability of numerical and orthogonal series by the methods connected with the Dirichlet problem for an elliptic domain. **90m:40010**
Markiewicz, Teresa (*with* Rempulska, Lucyna) On the summability methods connected with the Dirichlet problem for an elliptic domain. **90m:40009**
Rempulska, Lucyna *see* **Markiewicz, Teresa, 90m:40009** *and* **Firlej, Barbara, 90m:40010**

Items with secondary classifications in 40G10

Bashmakova, I. B. (*with* Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. **90i:42038**
Bingham, N. H. Tauberian theorems for Jakimovski and Karamata-Stirling methods. **90f:40006**
Khan, Huzoor H. (*with* Ram, Govind) On the degree of approximation. II. **90g:42005**
Kratz, Werner (*with* Stadtmüller, Ulrich) Tauberian theorems for general J_p-methods and a characterization of dominated variation. **90d:40006**
Mazhar, S. M. On (J, p_n) summability of Fourier series. **90h:42013a**
— Corrigendum: “On (J, p_n) summability of Fourier series”. **90h:42013b**
Nurcombe, J. R. On absolute Nörlund and Abel summability. **90k:40008**
Potekho, A. On the summability by the Abel method of expansions in eigenfunctions. (Russian. English and Lithuanian summaries) **90f:35156**
Ram, Govind *see* **Khan, Huzoor H., 90g:42005**
Rempulska, Lucyna On the summability of numerical and orthogonal series by the (B, n)-method. **90b:40009**
Skopina, M. A. *see* **Bashmakova, I. B., 90i:42038**
Stadtmüller, Ulrich *see* **Kratz, Werner, 90d:40006**

40G99 None of the above, but in this section

Gui, Bing Zhen A summation method for infinite series. (Chinese. English summary) **90k:40010**
Poluyanova, M. F. Conditions for the summability of the Cauchy product of two numerical series by Voronoĭ methods. (Russian) **90k:40011**
Rangachari, M. S. A corrigendum to: “On Lambert and Ingham summability” [J. Nat. Acad. Math. India 3 (1985), 145–152; MR 88e:40006]. **90c:40009**

Items with secondary classifications in 40G99

Al-Madi, Azmi K. Partial results on translativity of absolute Rogosinski-Bernstein summability methods. **90g:40009**
— On translativity of weighted mean summability methods. **90m:40004**
Kwee, B. The relation between the Borel and Riesz methods of summation. **90g:40007**
Mohapatra, Ram Narayan Degree of approximation of Hölder continuous functions. **90i:42001**
Singh, Niranjan Absolute Riesz summability of a Dirichlet series. **90g:40010**
Wei, Yu Chuen Regularity of “F” method of summability of sequences. **90k:40001**

40H05 Functional analytic methods in summability

Chun, Chung Suh (*with* Freedman, Allen R.) Theorems and examples for R-type summability methods. **90c:40010**
Das, Gokulananda (*with* Guru, N.) Functional Nörlund methods. **90d:40014**
DeFranza, J. (*with* Fleming, D. J.) Sequence spaces and summability factors. **90c:40011**
Fleming, D. J. *see* **DeFranza, J., 90c:40011**
Freedman, Allen R. *see* **Chun, Chung Suh, 90c:40010**
Guru, N. *see* **Das, Gokulananda, 90d:40014**
Jakimovski, Amnon (*with* Russell, Dennis; Stieglitz, Michael) Toeplitz bases in matrix fields. **90a:40005**
— (*with* Russell, Dennis; Stieglitz, Michael) On multipliers in sequence spaces and a theorem of Bosanquet. **90k:40012**
Liu, Yu Qiang Banach sequence spaces equipped with sequential norms. **90j:40016**
Russell, Dennis *see* **Jakimovski, Amnon; et al., 90a:40005** *and* **90k:40012**
Samaratunga, R. T. (*with* Sember, J. J.) Summability and substructures of 2^{N}. **90c:40012**
Savaş, Ekrem Paranormed sequence spaces generated by infinite matrices. **90b:40015**
Sember, J. J. *see* **Samaratunga, R. T., 90c:40012**
Stieglitz, Michael *see* **Jakimovski, Amnon; et al., 90a:40005** *and* **90k:40012**

Items with secondary classifications in 40H05

Akbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) **90j:40001**
Boos, Johann (*with* Leiger, Toivo) General theorems of Mazur-Orlicz type. **90c:46013**
Chandrasekhara Rao, K. Spaces of matrix operators. **90c:40002**
Chun, Chung Suh (*with* Freedman, Allen R.) A bounded consistency theorem for strong summabilities. **90i:40011**
Freedman, Allen R. *see* **Chun, Chung Suh, 90i:40011**
Giorgobiani, G. D. Structure of the set of sums of a conditionally converging series in a p-normed space. (Russian. English and Georgian summaries) **90f:46009**
Kadets, V. M. A domain of sums of weakly convergent series. **90j:40004**
Leiger, Toivo *see* **Boos, Johann, 90c:46013**
Luh, Yvonne Some matrix transformations between the sequence spaces $l(p)$, $l_\infty(p)$, $c_0(p)$, $c(p)$ and $w(p)$. **90g:40005**
Maddox, I. J. A Tauberian theorem for ordered spaces. **90i:40015**
Martins, Jorge Antonio Sanpaio Arithmetic and geometric means, an application to Lorentz sequence spaces. **90b:40002**
Nanda, Sudarsan Matrix transformations in some sequence spaces. **90k:40004**
Noll, Dominikus (*with* Stadler, Wolfgang) Weakening Tauberian conditions for summability methods. **90j:40010**
Savaş, Ekrem Some sequence spaces involving invariant means. **90h:46013**
Stadler, Wolfgang *see* **Noll, Dominikus, 90j:40010**

40J05 Summability in abstract structures
[see also 43A55, 46A35, 46B15]

Maeda, Shigeru Spectral resolution of a certain summation of series. **90j:40017**

Items with secondary classifications in 40J05

Antosik, Piotr On interchange of limits. **90c:40001**
Beekmann, Wolfgang (*with* Chang, Shao-Chien) Some distinguished subsets of FK-spaces containing φ. **90k:46019**
Chang, Shao-Chien *see* **Beekmann, Wolfgang, 90k:46019**
Georgobiani, G. Dzh. Some remarks on the set of sums of a conditionally convergent series in a Banach space. (Russian) **90c:46018**
Leiger, Toivo (*with* Plakso, K.) Conull and coregular operator summation matrices. (Russian. German summary) **90k:40005**
Plakso, K. *see* **Leiger, Toivo, 90k:40005**
Savaş, Ekrem Some sequence spaces involving invariant means. **90h:46013**
Sersouri, A. ω-independence in nonseparable Banach spaces. **90a:46021**

41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41–00 Handbooks, dictionaries, and other reference works

Altomare, F. (*with* Campiti, Michele) A bibliography on the Korovkin type approximation theory (1952–1987). **90m:41001**
Campiti, Michele *see* **Altomare, F., 90m:41001**

Items with secondary classifications in 41–00

(Gamkrelidze, R. V.) *see* **Analysis, 90j:00027**
Micula, G. ★ Theorie und Anwendung von Spline-Funktionen. [Theory and application of spline functions] **90g:41014**
(Newton, Dan) *see* **Analysis, 90j:00027**
(Törnig, Willi) *see* **Micula, G., 90g:41014**

Items listed otherwise than by author

Analysis ★ Analysis. I. **90j:00027**
Encyclopaedia of Mathematical Sciences ★ Analysis. I. **90j:00027**

41–01 Elementary exposition; textbooks

Baker, G. B. (*with* Mills, T. M.) Lagrange interpolation—divergence. (Not in MR)
Mills, T. M. *see* **Baker, G. B.,** (Not in MR)

41–02 Advanced exposition (research surveys, monographs, etc.)

Kannan, V. A problem in approximation theory. **90b:41001**
(Kuznetsov, Yuriĭ Alekseevich) *see* **Sendov, Bl., 90e:41001**
(Oskolkov, K. I.) *see* **Sendov, Bl., 90e:41001**
Popov, Vasil Atanasov *see* **Sendov, Bl., 90e:41001**
Sendov, Bl. (*with* Popov, Vasil Atanasov) ★ Усредненные модули гладкости. (Russian) [Averaged moduli of smoothness] **90e:41001**
Shen, Xie Chang The Weierstrass approximation theorem and its application. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 41–02

Dzyadyk, V. K. ★ Аппроксимационные методы решения дифференциальных и интегральных уравнений. (Russian) [Approximation methods for solving differential and integral equations] **90b:65002**
Lubinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. **90e:41014**
Pinkus, Allan M. ★ On L^1-approximation. **90j:41046**
Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] **90g:42008**

41–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 41–03

Baker, G. B. (*with* Mills, T. M.) Lagrange interpolation—divergence. (Not in MR)
Mills, T. M. *see* **Baker, G. B.,** (Not in MR)
Siegmund-Schultze, Reinhard Der Beweis des Weierstraßschen Approximationssatzes 1885 vor dem Hintergrund der Entwicklung der Fourieranalysis. (English and Russian summaries) [The proof of Weierstrass' approximation theorem of 1885 against the background of the development of Fourier analysis] **90b:01034**

41–04 Explicit machine computation and programs (not the theory of computation or programming)

Djordjević, Djordje R. *see* **Kocić, Ljubiša M.; et al.,** (Not in MR)
Kocić, Ljubiša M. (*with* Milovanović, Gradimir V.; Djordjević, Djordje R.) Spline approximation via convex programming. (Not in MR)
Milovanović, Gradimir V. *see* **Kocić, Ljubiša M.; et al.,** (Not in MR)

41–06 Proceedings, conferences, etc.

(Chui, C. K.) *see* **Multivariate approximation theory, 90j:41001**
(Dzyadyk, V. K.) *see* **Harmonic analysis and the development of approximation methods, 90m:41002**
(Gohberg, I.) *see* **Orthogonal matrix-valued polynomials and applications, 90k:41001**
(Ivanov, Kamen G.) *see* **Constructive theory of functions, 90a:41001**
(Maleev, R. P.) *see* **Constructive theory of functions, 90a:41001**
(Motornyĭ, V. P.) *see* **Investigations in current problems in summation and the approximation of functions and their applications, 90h:41001**
(Napalkov, V. V.) *see* **All-Union Symposium: Theory of the Approximation of Functions, 90c:41001**
(Petrushev, P. P.) *see* **Constructive theory of functions, 90a:41001**
(Pinchuk, S. I.) *see* **Studies in the theory of approximation of functions, 90d:41001**
(Schempp, Walter) *see* **Multivariate approximation theory, 90j:41001**
(Sendov, Bl.) *see* **Constructive theory of functions, 90a:41001**
(Videnskiĭ, V. S.) *see* **Operators and their applications, 90i:41001**
(Zeller, Karl) *see* **Multivariate approximation theory, 90j:41001**

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All-Union Symposium:
  Theory of the Approximation of Functions ★ Всесоюзный Симпозиум по Теории Приближения Функций. (Russian) [All-Union Symposium on the Theory of the Approximation of Functions] **90c:41001**
Cluj-Napoca ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. **90m:41003**
Conference:
  Constructive Function Theory ★ Constructive Function Theory—86 Conference. **90f:41001**
  Constructive Theory of Functions ★ Constructive theory of functions. **90a:41001**
  Multivariate Approximation Theory ★ Multivariate approximation theory. IV. **90j:41001**
Constructive theory of functions ★ Constructive theory of functions. **90a:41001**
Edmonton, AB ★ Constructive Function Theory—86 Conference. **90f:41001**
Harmonic analysis and the development of approximation methods ★ Гармонический анализ и развитие аппроксимационных методов. (Russian) [Harmonic analysis and the development of approximation methods] **90m:41002**
Investigations in current problems in summation and the approximation of functions and their applications ★ Исследования по современным проблемам суммирования и приближения функций и их приложениям. (Russian) [Investigations in current problems in summation and the approximation of functions and their applications] **90h:41001**
Multivariate approximation theory ★ Multivariate approximation theory. IV. **90j:41001**
Oberwolfach ★ Multivariate approximation theory. IV. **90j:41001**
Operators and their applications ★ Операторы и их приложения. (Russian) [Operators and their applications] **90i:41001**
Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Seminar:
  Functional Equations, Approximation and Convexity ★ Itinerant Seminar on Functional Equations, Approximation and Convexity. **90m:41003**
  Operator Theory ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Studies in the theory of approximation of functions ★ Исследования по теории аппроксимации функций. (Russian) [Studies in the theory of approximation of functions] **90d:41001**
Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Varna ★ Constructive theory of functions. **90a:41001**

Items with secondary classifications in 41–06

(Nikol'skiĭ, S. M.) *see* **Theory of functions and approximations, 90d:00046; Studies in the theory of differentiable functions of several variables and its applications, 90e:46002** *and* **Theory of functions and approximations, 90i:00006**
(Stechkin, S. B.) *see* **All-Union School: Theory of Functions, 90a:00020**
(Taĭkov, L. V.) *see* **Application of functional analysis in approximation theory, 90m:00015**

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All-Union School:
  Theory of Functions ★ Сборник трудов Всесоюзной Школы по Теории Функций. (Russian) [A collection of papers from the All-Union School on the Theory of Functions] **90a:00020**
Application of functional analysis in approximation theory ★ Применение функционального анализа в теории приближений. (Russian) [Application of functional analysis in approximation theory] **90m:00015**
Dushanbe ★ Сборник трудов Всесоюзной Школы по Теории Функций. (Russian) [A collection of papers from the All-Union School on the Theory of Functions] **90a:00020**
Saratov ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
School:
  Theory of Functions and Approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
  — ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**
Studies in the theory of differentiable functions of several variables and its applications ★ Исследования по теории дифференцируемых функций многих переменных и ее приложениям. 13. (Russian) [Studies in the theory of differentiable functions of several variables and its applications. 13] **90e:46002**
Theory of functions and approximations ★ Теория функций и приближений. Часть 3. (Russian) [Theory of functions and approximations. Part 3] **90d:00046**
— ★ Теория функций и приближений. Часть 1. (Russian) [Theory of functions and approximations. Part 1] **90i:00006**

41A05 Interpolation [see also 42A15 and 65D05]

Akhlaghi, M. R. On L_p-convergence of nonpolynomial interpolation. **90h:41002**
Anderson, Brian D. O. *see* **Antoulas, A. C., 90i:41002**
Antoulas, A. C. (*with* Anderson, Brian D. O.) On the problem of stable rational interpolation. **90i:41002**
Balázs, Katherine Convergence of the derivatives of Lagrange interpolating polynomials based on the roots of Hermite polynomials. **90b:41002**
Bazelkov, M. S. *see* **Totkov, G. A., 90j:41006**
Berman, D. L. Investigation of Hermite-Fejér interpolation processes with boundary conditions. (Russian) (*see* **90d:00009**)
— Interpolation processes with boundary conditions. (Russian) **90c:41002**
— An interpolation process of Hermite-Fejér type. (Russian) **90k:41002**
— A note on the extended Hermite-Fejér interpolation. **90h:41003**

Bettger, Manfred Uniform convergence of modified Hermite-Fejér interpolation processes. **90d:41002**
Buhmann, M. D. Cardinal interpolation with radial basis functions: an integral transform approach. **90m:41004**
Butzer, P. L. (*with* Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. I. Theory of two-dimensional bandlimited signals. **90j:41002**
— (*with* Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. II. Reconstruction formulae and applications. **90j:41003**
Coman, Gh. Shepard-Taylor interpolation. (*see* **90b:00008**)
— (*with* Ţâmbulea, Leon) A Shepard-Taylor approximation formula. (Romanian summary) **90i:41003**
Davydov, O. V. A Lagrange interpolation polynomial over equidistant nodes that does not converge in measure to the function $|x|$ on $[-1, 1]$. (Russian) **90i:41004**
Didkovskaya, N. V. Generalization to interpolation classes of the Bernstein-Kreĭn theorem and its converse. (Russian) (*see* **90d:00009**)
Dontchev, Asen L. (*with* Kalchev, Bl. D.) Duality and well-posedness in convex interpolation. **90m:41005**
Dyn, N. (*with* Lubinsky, D. S.) Convergence of interpolation to transforms of totally positive kernels. **90h:41004**
Eneduanya, Sylvanus A. N. On the modified Pál-type interpolation polynomials. **90i:41005**
Erdős, Paul (*with* Kroó, András; Szabados, J.) On convergent interpolatory polynomials. **90k:41003**
Fawzy, Th. Notes on lacunary interpolation by splines. II. (0, 2) interpolation. **90b:41003a**
— Notes on lacunary interpolation with splines. III. (0, 2)-interpolation with quintic G-splines. **90b:41003b**
— (*with* Holail, F.) Notes on lacunary interpolation with splines. IV. (0, 2) interpolation with splines of degree 6. **90b:41003c**
Gânscă, Ioan Interpolation function with control of derivatives on interpolation points. (Romanian summary) **90g:41001**
Garrett, Tylene S. (*with* Newbery, A. C. R.) C^2 interpolation methods. **90b:41004**
Georgiou, Tryphon T. Spectral factorization of matrix-valued functions using interpolation theory: state-space formulae. **90m:41006**
Gonska, Heinz H. Degree of approximation by lacunary interpolators: $(0, \cdots, R-2, R)$ interpolation. **90i:41006**
Heinig, Georg (*with* Hoppe, Wolfram; Rost, Karla) Structured matrices in interpolation and approximation problems. (German summary) **90g:41002**
Hinsen, G. *see* **Butzer, P. L., 90j:41002** *and* **90j:41003**
Holail, F. *see* **Fawzy, Th., 90b:41003c**
Hoppe, Wolfram *see* **Heinig, Georg; et al., 90g:41002**
Horwitz, Alan A constructive approach to nonnegative polynomial interpolation. **90h:41005**
— (*with* Rubel, Lee A.) Two theorems on inverse interpolation. **90a:41002**
Huang, Da Ren (*with* Sun, Yong Sheng) Optimal interpolation on some class of differentiable functions. **90m:41007**
Illán González, Jesús A generalized interpolatory formula for the integration of analytic functions. (Spanish. English summary) **90a:41003**
Ishankulov, T. I. An interpolation problem for polynomials of two variables. (Russian) (*see* **90h:53003**)
Jiang, Gong Jian The order of approximation of rational interpolation operators with Legendre nodes. (Chinese. English summary) **90b:41005**
Joó, István (*with* Nguyễn Xuân Ký) Answer to a problem of Paul Turán. **90h:41006**
Kalchev, Bl. D. *see* **Dontchev, Asen L., 90m:41005**
Khokholov, V. B. Conditions for uniform convergence of Lagrange interpolation processes with respect to Jacobi matrices. (Russian) (*see* **90d:00046**)
Khromova, G. V. A problem of reconstructing functions that are given with an error. (Russian) (*see* **90d:00046**)
Kilgore, Theodore Some recent results in optimal interpolation. **90b:41006**
— Optimal interpolation in a general setting—a beginning. **90b:41007**
Kovalishina, I. V. A multiple boundary value interpolation problem for contracting matrix functions in the unit disk. (Russian) **90i:41007**
Kowalski, Marek A. (*with* Stenger, Frank) Optimal complexity recovery of band- and energy-limited signals. II. **90c:41003**
Kroó, András *see* **Erdős, Paul; et al., 90k:41003**
Lascoux, Alain Interpolation de Lagrange. [Lagrange interpolation] **90m:41008**
Lenze, Burkhard On one-sided spline approximation operators. **90e:41002**
Lepschy, A. (*with* Mian, G. A.; Viaro, U.) Computational aspects of rational interpolation. (Italian summary) **90g:41003**
Lorentz, G. G. (*with* Lorentz, Rudolph Alexander) Solvability of bivariate interpolation. II. Applications. **90d:41003**
— Solvability of multivariate interpolation. **90j:41004**
Lorentz, Rudolph Alexander Uniform bivariate Hermite interpolation. **90j:41005**
— *see also* **Lorentz, G. G., 90d:41003**
Lowen, Robert A fuzzy Lagrange interpolation theorem. **90k:41004**
Lubinsky, D. S. *see* **Dyn, N., 90h:41004**
Madych, W. R. Cardinal interpolation with polyharmonic splines. **90m:41009**
Mian, G. A. *see* **Lepschy, A.; et al., 90g:41003**
Micchelli, Charles A. (*with* Utreras, Florencio I.) Smoothing and interpolation in a convex subset of a Hilbert space. **90b:41008**
Min, Guo Hua On Grünwald's interpolation operator and its applications. (Chinese. English summary) **90i:41008**
Mitrea, Alexandru-Ioan On the instability of generalised convergence in mean of Lagrange interpolation processes for the Čebyšev matrix of the first kind. **90h:41007**
Nevai, Paul (*with* Vértesi, Péter) Convergence of Hermite-Fejér interpolation at zeros of generalized Jacobi polynomials. **90i:41009**
Newbery, A. C. R. *see* **Garrett, Tylene S., 90b:41004**
Nguyễn Thị Thiêu Hoa Some extremal problems on classes of functions defined by linear differential operators. (Russian) **90m:41010**
Nguyễn Xuân Ký *see* **Joó, István, 90h:41006**
Palagallo, Judith A. (*with* Price, Thomas E., Jr.) Near-best approximation by averaging polynomial interpolants. **90a:41004**
Pendina, T. P. *see* **Videnskiĭ, V. S., (90d:00009)**
Pinkus, Allan M. On smoothest interpolants. **90c:41004**
Postnikov, B. M. Interpolation with respect to arbitrary matrices of nodes. (Russian) (*see* **90d:00046**)
Prasad, Jagdish On the order of approximation of the Hermite interpolation polynomials. **90b:41009**
Price, Thomas E., Jr. *see* **Palagallo, Judith A., 90a:41004**
Pruess, Steven Stability bounds for local Lagrangian interpolation. **90i:41010**
von Radziewski, Karin Bivariate Hermite spline interpolation. **90i:41011**
Reimer, M. Interpolation mit sphärischen harmonischen Funktionen. [Interpolation with spherical harmonic functions] (*see* **90f:65003**)
Rost, Karla *see* **Heinig, Georg; et al., 90g:41002**
Rubel, Lee A. *see* **Horwitz, Alan, 90a:41002**
Rukshin, S. E. A linear interpolation operator in multiply connected domains. (Russian) **90k:41005**
Shekhtman, Boris On the norms of interpolating operators. **90c:41005**
Shparlinskiĭ, I. E. A generalization of Chebyshev polynomials. (Russian) **90k:41006**
Siepmann, Dietmar Cardinal interpolation by polynomial splines: interpolation of data with exponential growth. **90c:41006**
Smith, P. W. (*with* Ward, J. D.) Distinguished solutions to an L_∞ minimization problem. **90g:41004**
Sonnevend, G. Necessary and sufficient conditions for interpolation with functions having monotone rth derivatives. (Russian summary) **90h:41008**
Stenger, Frank *see* **Kowalski, Marek A., 90c:41003**
Stengle, Gilbert Chebyshev interpolation with approximate nodes of unrestricted multiplicity. **90d:41004**
Subbotin, Yu. N. The dependence of estimates of a multidimensional piecewise-polynomial approximation on the geometric characteristics of a triangulation. (Russian) **90h:41009**
Sun, Xie Hua Lagrange interpolation of functions of generalized bounded variation. **90e:41003**
Sun, Yong Sheng *see* **Huang, Da Ren, 90m:41007**
Szabados, J. (*with* Vértesi, Péter) On simultaneous optimization of norms of derivatives of Lagrange interpolation polynomials. **90i:41012**
— (*with* Varma, A. K.) On (0, 1, 2) interpolation in uniform metric. **90k:41007**
— *see also* **Erdős, Paul; et al., 90k:41003**
Ţâmbulea, Leon *see* **Coman, Gh., 90i:41003**
Tian, Ji Shan *see* **Wang, Zi Yu, 90i:41014**
Totkov, G. A. (*with* Bazelkov, M. S.) On the precision of the polygonal interpolation in H^s_ω $(s \geq 2)$. **90j:41006**
Utreras, Florencio I. *see* **Micchelli, Charles A., 90b:41008**
Varma, A. K. *see* **Szabados, J., 90k:41007**
Verde-Star, Luis Biorthonormal systems, partial fractions, and Hermite interpolation. **90i:41013**
Vértesi, Péter On the integral of fundamental polynomials of Lagrange interpolation. **90m:41011**
— Hermite-Fejér interpolations of higher order. I. **90k:41008**
— *see also* **Nevai, Paul, 90i:41009** *and* **Szabados, J., 90i:41012**
Viaro, U. *see* **Lepschy, A.; et al., 90g:41003**
Videnskiĭ, V. S. (*with* Pendina, T. P.) Bernstein modification of linear interpolation splines. (Russian) (*see* **90d:00009**)
Wallin, Hans Interpolating and orthogonal polynomials on fractals. **90d:41005**
Wang, Zi Yu (*with* Tian, Ji Shan) A note on Hermite-Fejér polynomial interpolation operators. (Chinese. English summary) **90i:41014**
Ward, J. D. *see* **Smith, P. W., 90g:41004**
Xie, Ting Fan On convergence of Pál-type interpolation polynomials. **90d:41006**
Zalik, R. A. (*with* Zwick, D.) On extending the domain of definition of Čebyšev and weak Čebyšev systems. **90c:41007**
Zmatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) **90h:41010**
Zwick, D. *see* **Zalik, R. A., 90c:41007**

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Balázs, Katherine (*with* Kilgore, Theodore) On the simultaneous approximation of derivatives by Lagrange and Hermite interpolation. **90m:41030**
Barnsley, Michael F. (*with* Elton, John H.; Hardin, D. P.; Massopust, P.) Hidden variable fractal interpolation functions. **90h:26004**
Baszenski, Günter (*with* Delvos, Franz-Jürgen) A variant of the Krylov-Lanczos method for bivariate trigonometric interpolation. **90g:42009**
Beatson, R. K. (*with* Wolkowicz, H.) Post-processing piecewise cubics for monotonicity. **90i:65019**
Bedford, Tim Hölder exponents and box dimension for self-affine fractal functions. **90f:26003**
Bloom, Thomas On the convergence of multivariable Lagrange interpolants. **90m:32032**
Bridges, Douglas S. Approximate interpolation by functions in a Haar space. **90f:03098**
Chu, Wen Chang Some bivariate inverse relations with applications to interpolation formulae. **90h:39012**
Delvos, Franz-Jürgen Periodic area matching interpolation. **90i:65018**
— Mean approximation via interpolation by translation. **90j:42009**
— *see also* **Baszenski, Günter, 90g:42009**
Deslauriers, Gilles (*with* Dubuc, Serge) Symmetric iterative interpolation processes. **90c:65016**
Dorato, Peter (*with* Park, Hong-Bae; Li, Yun Zhi) An algorithm for interpolation with units in H^∞, with applications to feedback stabilization. (Not in MR)
Dubuc, Serge *see* **Deslauriers, Gilles, 90c:65016**
Eğecioğlu, Ö. (*with* Koç, Ç. K.) A fast algorithm for rational interpolation via orthogonal polynomials. **90a:65015**
Elton, John H. *see* **Barnsley, Michael F.; et al., 90h:26004**
Elumalai, S. Interpolation in Hilbert spaces. **90e:46018**
Fawzy, Th. (0, 2, 4) lacunary interpolation with G-splines. **90c:41015a**
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Feistauer, M. On the finite element approximation of functions with noninteger derivatives. **90b:65009**

Goodman, T. N. T. (*with* Lee, Seng Luan; Sharma, Ambikeshwar) Approximation and interpolation by complex splines on the torus. **90j:41018**

Grigore, Gheorghe *see* **Ichim, Ion, 90c:65018**

Hardin, D. P. *see* **Barnsley, Michael F.; et al., 90h:26004**

Ichim, Ion (*with* Grigore, Gheorghe) Une formule de type Newton-Hermite pour le polynôme trigonométrique d'interpolation. Différences divisées trigonométriques. [A Newton-Hermite formula for the trigonometric interpolation polynomial. Trigonometric divided differences] **90c:65018**

Kasenally, E. M. *see* **Limebeer, D. J. N., 90k:49020**

Kaz'min, Yu. A. A variant of the Abel-Goncharov interpolation problem. **90i:30056**

Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 90m:65027**

Kilgore, Theodore *see* **Balázs, Katherine, 90m:41030**

Kirov, G. Kh. On the optimal reconstruction of functions. I. (Bulgarian. English and Russian summaries) **90b:65027a**

— On the optimal reconstruction of functions. II. (Bulgarian. English and Russian summaries) **90b:65027b**

— On the optimal reconstruction of functions. III. (Bulgarian. English and Russian summaries) **90b:65027c**

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Li, Yun Zhi *see* **Dorato, Peter; et al.**, (Not in MR)

Limebeer, D. J. N. (*with* Kasenally, E. M.) Vector interpolation: applications to H^∞-optimal control. **90k:49020**

Madych, W. R. (*with* Nelson, S. A.) Polyharmonic cardinal splines. **90j:41022**

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) An interpolation formula of Newton type for nonlinear functionals. **90m:65027**

Mao, Ze Chun *see* **Sun, Jun Yi, 90c:41022**

Martin, Clyde Franklin Observability, interpolation and related topics. (*see* **90k:93005**)

Massopust, P. *see* **Barnsley, Michael F.; et al., 90h:26004**

Mühlbach, G. On multivariate interpolation by generalized polynomials on subsets of grids. (German summary) **90c:65020**

Mummy, Mark S. Hermite interpolation with B-splines. **90d:65034**

Narayanaswamy, Indira Simultaneous approximation and interpolation with norm-preservation by Tchebysheffian splines. **90c:41035**

Navot, I. An algorithm for interpolation at real frequencies with a minimal reactance function by the discrete Chebychev approximation method. **90m:94051**

Nelson, S. A. *see* **Madych, W. R., 90j:41022**

Nürnberger, Günther ★ Approximation by spline functions. **90j:41025**

Ovchintsev, M. P. On the optimal recovery of functions of the class E_p in an annulus. **90k:41037**

Park, Hong-Bae *see* **Dorato, Peter; et al.**, (Not in MR)

Păvăloiu, Ion Un algorithme de calcul dans la résolution des équations par interpolation. [An algorithm for solving equations by interpolation] **90a:65018**

Piedra, René On simultaneous rational interpolants of type (α, β). **90j:30058**

Prasad, Jagdish *see* **Varma, A. K., 90c:41012**

Qian, Pei Ling (*with* Shao, Wei) On n-widths in l_p. **90m:41037**

Rana, S. S. Quadratic spline interpolation. **90i:41023**

Reimer, M. Zur reellen Darstellung periodischer Hermite-Spline-Interpolierender bei äquidistantem Gitter mit Knotenshift. [On the real representation of periodic Hermite-spline interpolants in the case of an equidistant grid with shift of nodes] **90g:65015**

Schaback, R. Interpolation with piecewise quadratic visually C^2 Bézier polynomials. **90j:65020**

Schmidt, Jochen W. On the convex cubic C^2-spline interpolation. (*see* **90f:65003**)

Schumaker, Larry L. On super splines and finite elements. **90g:65016**

Sha, Zhen (*with* Xuan, Pei Cai) Interpolation and approximation with doubly periodic cubic splines on type II triangulations. (Chinese. English summary) **90d:41024**

— (*with* Xuan, Pei Cai) On interpolation by S_3^1. II. (Chinese. English summary) **90e:65015**

Shaked, U. A two-sided interpolation approach to H_∞ optimization problems. **90j:93043**

Shao, Wei *see* **Qian, Pei Ling, 90m:41037**

Sharma, Ambikeshwar (*with* Szabados, J.) Convergence rates for some lacunary interpolators on the roots of unity. **90a:30110**

— *see also* **Goodman, T. N. T.; et al., 90j:41018**

Shen, Xie Chang The summation of orthogonal expansions of Hermite interpolation basis functions. (Chinese) **90m:33012**

Smith, P. W. (*with* Ward, J. D.) Quasi-interpolants from spline interpolation operators. **90j:41027**

Subbotin, Yu. N. Norms of interpolation splines of odd degree in the space W_2^k. **90c:41021**

Sun, Jun Yi (*with* Mao, Ze Chun) Asymptotic expansion of the remainder term for type I interpolation by cubic splines with nonequidistant nodes. (Chinese. English summary) **90c:41022**

Sun, Yong Sheng Optimal interpolation on a convolution class of functions. **90j:41044**

Szabados, J. *see* **Sharma, Ambikeshwar, 90a:30110**

Varma, A. K. (*with* Prasad, Jagdish) An analogue of a problem of P. Erdős and E. Feldheim on L_p convergence of interpolatory processes. **90c:41012**

Vasilenko, A. V. On optimality of spline interpolation for recovery of differentiable functions. (Russian summary) **90m:41024**

Ward, J. D. *see* **Smith, P. W., 90j:41027**

Wolkowicz, H. *see* **Beatson, R. K., 90i:65019**

Xie, Ting Fan Approximation by almost Hermite-Fejér interpolation polynomials. (Chinese. English summary) **90h:41015**

Xu, Guo Liang Rational interpolation on a curve. **90b:65012**

Xu, Yuan Bonferroni-type inequalities via interpolating polynomials. **90f:60034**

Xuan, Pei Cai *see* **Sha, Zhen, 90d:41024** *and* **90e:65015**

Yokoyama, Misako On optimal algorithms for problems defined on groups. **90h:65088**

41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10.}

Andrica, Dorin Bernstein's polynomials for powers via shifting operator. **90h:41011**

Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantic deviation from zero. **90b:41010**

Babaev, M.-B. A. Best approximation by bilinear forms. **90i:41015**

Babenko, V. F. Sequences of polynomials of best L_1-approximation. (Russian) **90i:41016**

— (*with* Kofanov, V. A.) Nonsymmetric approximations of classes of differentiable functions by algebraic polynomials in the mean. (Russian. English summary) **90d:41007**

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Mihail, Mircea Sur la convergence des suites de projecteurs spline. [On the convergence of sequences of spline projectors] **90g:41015**

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— A scale of power splines. (Russian) **90a:41011**

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— Discrete cubic $\mathfrak{X}$-splines. **90a:41012**

— Convergence of a class of deficient interpolatory splines. **90g:41018**

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Romanov, V. S. Uniqueness of a Chebyshev spline of best (α,β)-approximation in metric L_1 for the class of continuous functions. **90b:41022**
Ron, Amos A necessary and sufficient condition for the linear independence of the integer translates of a compactly supported distribution. **90g:41019**
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Seidel, Hans-Peter A new multiaffine approach to B-splines. **90b:41023**
Sha, Zhen (*with* Xuan, Pei Cai) Interpolation and approximation with doubly periodic cubic splines on type II triangulations. (Chinese. English summary) **90d:41024**
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Sivakumar, N. On univariate cardinal interpolation by shifted splines. **90i:41024**
Smith, P. W. (*with* Ward, J. D.) Quasi-interpolants from spline interpolation operators. **90j:41027**
Subbotin, Yu. N. Norms of interpolation splines of odd degree in the space W_2^k. **90c:41021**
Sun, Jia Chang The B-net approach to B-splines in one dimension. (Chinese. English summary) **90i:41025**
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Székelyhidi, László L^p-approximation by splines. **90b:41024**
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Vasilenko, A. V. On optimality of spline interpolation for recovery of differentiable functions. (Russian summary) **90m:41024**
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Xiao, Shao Liang The space of bivariate doubly periodic spline functions on a tridirectional mesh. (Chinese. English summary) **90c:41023**
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Ye, Mao Dong Some problems for the bivariate C^1-cubic splines. **90c:41024**
Ye, Zai Fei On interpolation splines of odd degrees. **90g:41021**
Ye, Zheng Lin A class of B-spline curves approximating to their control polygons. (Chinese. English summary) **90b:41025**
Zheludev, V. A. Local approximation by cubic and bicubic splines. (Russian) (*see* **90d:00009**)

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Andersson, Lars-Erik *see* **Elfving, Tommy, 90c:65021**
Anwar, M. N. (*with* El Tarazi, M. N.) Direct cubic spline with application to quadrature. **90d:65029**
Babenko, V. F. Exact inequalities for rearrangements of periodic monosplines, and best quadrature formulas. (Russian) **90j:41050**
Basdevant, C. *see* **Perrier, V., 90j:42067**
Behforooz, G. Quadratic spline. **90d:65030**
Bezhaev, A. Yu. Splines on manifolds. **90b:65013**
— Approximation of linear functionals, and multidimensional spline interpolation. **90m:65028**
Bierowska, Anna (*with* Bierowski, Marek; Borek, Romuald) Compression of numerical data describing function $f(x)$ within the range $\langle a,b)$ based on approximation by means of splines and Hermitian splines. (Russian and Polish summaries) **90e:65020**
Bierowski, Marek *see* **Bierowska, Anna; et al., 90e:65020**
Billera, L. J. (*with* Rose, L. L.) Gröbner basis methods for multivariate splines. **90k:65032**
de Boor, Carl What is a multivariate spline? **90b:65015**
— (*with* Höllig, Klaus; Riemenschneider, S. D.) Fundamental solutions for multivariate difference equations. **90h:39002**
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Butzer, P. L. (*with* Schmidt, Michael; Stark, E. L.) Observations on the history of central B-splines. **90b:01042**
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Chui, C. K. (*with* He, Tian Xiao) Bivariate C^1 quadratic finite elements and vertex splines. **90e:65012**
Dahmen, Wolfgang (*with* Micchelli, Charles A.) Convexity of multivariate Bernstein polynomials and box spline surfaces. **90g:41005**
— (*with* Micchelli, Charles A.) The number of solutions to linear Diophantine equations and multivariate splines. **90f:11018**
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Dyn, N. (*with* Micchelli, Charles A.) Piecewise polynomial spaces and geometric continuity of curves. **90a:65020**
Elfving, Tommy (*with* Andersson, Lars-Erik) An algorithm for computing constrained smoothing spline functions. **90c:65021**
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Feng, Yu Yu (*with* Kozak, Jernej) An approach to the interpolation of nonuniformly spaced data. **90a:65016**
Figiel, Tadeusz On equivalence of some bases to the Haar system in spaces of vector-valued functions. (Russian summary) **90i:46070**
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Hagen, Hans Computer aided geometric design—methods and applications. **90f:65030**
Han, Guo Qiang Asymptotic expressions for the remainder terms in fourth order operator spline interpolation, and their points of superconvergence. (Chinese. English summary) **90c:65023**
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Meinardus, Günter (*with* Nürnberger, Günther; Sommer, Manfred; Strauss, Hans) Algorithms for piecewise polynomials and splines with free knots. **90d:65033**
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Mørken, K. *see* **Lyche, T., 90c:65027**
Müllenheim, Gregor Numerical treatment of two-point boundary value problems with spline functions. (*see* **90a:41001**)
— Some new recursion relations for spline functions with application to spline collocation. **90i:65027**
Mummy, Mark S. Hermite interpolation with B-splines. **90d:65034**
Narayanaswamy, Indira Simultaneous approximation and interpolation with norm-preservation by Tchebysheffian splines. **90c:41035**
Neuman, E. Inequalities involving multivariate convex functions. II. **90k:26041**
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Poggio, T. (*with* Girosi, F.) Regularization algorithms for learning that are equivalent to multilayer networks. **90k:92076**
Pogorelov, A. G. Construction of smoothing splines by linear programming methods. **90k:65047**

Popov, B. A. Methods for determining boundaries of segments in the process of asymptotically uniform approximation by splines. (Russian) **90c:65028**
Pottmann, Helmut Curves and tensor product surfaces with third order geometric continuity. **90f:65021**
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Prenter, P. M. ★ Splines and variational methods. **90j:65001**
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von Radziewski, Karin Bivariate Hermite spline interpolation. **90i:41011**
Reimer, M. Zur reellen Darstellung periodischer Hermite-Spline-Interpolierender bei äquidistantem Gitter mit Knotenshift. [On the real representation of periodic Hermite-spline interpolants in the case of an equidistant grid with shift of nodes] **90g:65015**
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Romanov, V. S. Uniqueness of the Chebyshev spline of best approximation in the mean for a class of functions that have at most one point of discontinuity. (Russian) **90e:65013**
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Sakai, Manabu (*with* Schmidt, Jochen W.) Positive interpolation with rational splines. **90e:65014**
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Schmidt, Jochen W. Results and problems in shape preserving interpolation and approximation with polynomial splines. **90i:65028**
— (*with* Hess, Walter Paul) Spline interpolation under two-sided restrictions on the derivatives. (German and Russian summaries) **90j:65027**
— *see also* **Sakai, Manabu, 90e:65014**
Schmidt, Michael *see* **Butzer, P. L.; et al., 90b:01042** *and* **90d:05007**
Schumaker, Larry L. On super splines and finite elements. **90g:65016**
Sendov, Bl. Approximation splines. **90m:65033**
Sha, Zhen (*with* Xuan, Pei Cai) On interpolation by S_3^1. II. (Chinese. English summary) **90e:65015**
Shadrin, A. Yu. The rate of convergence of interpolation splines given on nonuniform grids. **90m:65034**
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Subbotin, Yu. N. The dependence of estimates of a multidimensional piecewise-polynomial approximation on the geometric characteristics of a triangulation. (Russian) **90h:41009**
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Vogt, L. *see* **Butzer, P. L.; et al., 90d:05007**
Wang, Qi (*with* Toraichi, Kazuo; Kamada, Masaru; Mori, Ryoichi) Circuit design of a D/A converter using spline functions. (French and German summaries) (Not in MR)
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Yatsenko, S. A. *see* **Kvasov, B. I., 90c:65024**
Ye, Zai Fei (*with* Huang, Da Ren) An upper bound for the number of zeros of an HB-spline. (Chinese. English summary) **90e:65018**
Zhang, Hong Wei^2 An exponential approximation method. (Chinese. English summary) **90i:65038**
Zheludev, V. A. Approximation remainder terms for local splines of second and fourth degree. **90d:65035**
Zheng, De Chuan A class of composite splines. (Chinese. English summary) **90i:65030**
Zhensykbaev, A. A. On monosplines with nonnegative coefficients. **90d:41053**
Zmatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) **90h:41010**

41A17 Inequalities in approximation (Bernstein, Jackson, Nikolʹskiĭ type inequalities)

Avez, A. Un théorème de Haar. (English summary) [A theorem of Haar] **90f:41008**
Dechevski, L. T. On the constants of equivalence between some functional moduli and K-functionals. **90k:41020**
Erdélyi, T. Markov type estimates for the derivatives of constrained polynomials. **90m:41025**
— Markov-type estimates for certain classes of constrained polynomials. **90f:41009**
— Weighted Markov-type estimates for the derivatives of constrained polynomials on $[0,\infty)$. **90h:41018**
Fang, Gen Sun On exact constant in Jackson type inequality. **90c:41025**
Goetgheluck, Pierre On a polynomial inequality connected with the multivariate Markov inequality. **90e:41008**
Kolyada, V. I. On the relations between moduli of continuity in various metrics. (Russian) **90k:41021**
Lupaş, Alexandru A q-analogue of the Bernstein operator. **90b:41026**
Milovanović, Gradimir V. *see* **Milovanović, Igor Ž., 90d:41025**
Milovanović, Igor Ž. (*with* Milovanović, Gradimir V.) An extremal problem for algebraic polynomials with a prescribed zero. **90d:41025**
Rahman, Q. I. (*with* Schmeisser, G.) Markoff type inequalities for curved majorants. **90k:41022**
Romanyuk, A. S. An inequality of Bohr-Favard type, and the best m-term approximation of the classes $L^{\psi}_{\beta,p}$ in the space L_q. (Russian) **90f:41010**
Schmeisser, G. *see* **Rahman, Q. I., 90k:41022**
Timofeev, V. G. An extremal inequality of Landau type with iterated Laplace operators in $L_2(\mathbf{R}^m)$. (Russian) (*see* **90d:00046**)
Tsarʹkov, I. G. An inequality of Jackson type for abstract functions. (Russian) **90h:41019**
Zhou, Song Ping A pointwise inequality for derivatives of polynomials with positive coefficients. (Chinese. English summary) **90i:41026**

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Barrar, R. B. (*with* Boyanov, Borislav D.; Loeb, H. L.) Generalized polynomials of minimal norm. **90b:41047**
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Cao, Jia Ding (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. **90d:41041a**
— (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. II. Gopengauz-type estimates. **90d:41041b**
Dahlhaus, R. Pointwise approximation by algebraic polynomials. **90h:41012**
Ditzian, Z. The modulus of smoothness and discrete data in a square domain. **90c:65017**
— (*with* Totik, V.) Remarks on Besov spaces and best polynomial approximation. **90b:41013**
— Multivariate Landau-Kolmogorov-type inequality. **90a:26023**
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Erdélyi, T. (*with* Szabados, J.) Bernstein type inequalities for a class of polynomials. **90f:42001**
Fabre, Caroline La meilleure constante pour un produit de polynômes. (English summary) [The best constant for a product of polynomials] **90d:30011**
von Golitschek, M. (*with* Lorentz, G. G.) Bernstein inequalities in L_p, $0\le p\le +\infty$. **90h:26020**
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Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) **90d:42018**
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Kuang, Ji Chang Approximation of elliptic Riesz means in real Hardy spaces $H^p(T)$. (Chinese. English summary) **90d:42025**
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Lorentz, G. G. Notes on approximation. **90f:41004**
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Mamedkhanov, Dzh. I. (*with* Nersisyan, A. A.) Estimates between best approximations in classes of summable functions on curves of the complex plane. (Russian) **90j:30063**
(McFaden, H. H.) *see* **Temlyakov, V. N., 90e:00007**
Milovanović, Gradimir V. (*with* Milovanović, Igor Ž.) An extremal problem for polynomials with nonnegative coefficients. III. **90h:26019**
Milovanović, Igor Ž. (*with* Kovačević, Milan A.) An extremal problem for real algebraic polynomials. (*see* **90i:65008**)
— *see also* **Milovanović, Gradimir V., 90h:26019**
Nersisyan, A. A. *see* **Mamedkhanov, Dzh. I., 90j:30063**
Nguyễn Thị Thiêu Hoa Some extremal problems on classes of functions defined by linear differential operators. (Russian) **90m:41010**
— The oscillation property of the operator $D(D^2+1^2)\cdots(D^2+n^2)$ and its applications. **90g:26008**
Odogwu, H. N. An improved constant for the Müntz-Jackson theorem. **90m:41015**
Palagallo, Judith A. (*with* Price, Thomas E., Jr.) Near-best approximation by averaging polynomial interpolants. **90a:41004**
Price, Thomas E., Jr. *see* **Palagallo, Judith A., 90a:41004**
Razi, Q. *see* **Umar, S., 90j:41039**
Szabados, J. *see* **Erdélyi, T., 90f:42001**
Temlyakov, V. N. Approximation of functions with bounded mixed derivative. **90e:00007**
Totik, V. Sharp converse theorem of L^p-polynomial approximation. **90k:41015**
— *see also* **Ditzian, Z., 90b:41013** *and* **Ivanov, Kamen G., 90k:26023**
Umar, S. (*with* Razi, Q.) Approximation by modified Szász operators. **90j:41039**
van Wickeren, E. Direct and inverse theorems for Bernstein polynomials in the space of Riemann integrable functions. **90d:41030**

41A20 Approximation by rational functions

Bales, Laurence A. (*with* Karakashian, Ohannes A.; Serbin, Steve M.) On the stability of rational approximations to the cosine with only imaginary poles. **90c:41026**
Brosowski, Bruno (*with* Guerreiro, Claudia) On the uniqueness and strong uniqueness of best rational Chebyshev-approximation. **90c:41027**
Dunham, Charles B. Uniqueness of representation of rational functions. **90e:41009**
Guerreiro, Claudia *see* **Brosowski, Bruno, 90c:41027**
Illán González, Jesús On the rational approximation of H^p functions in the $L_p(\mu)$ metric. **90g:41022**
Karakashian, Ohannes A. *see* **Bales, Laurence A.; et al., 90c:41026**
Khatamov, A. Rational approximation of convex functions of several variables in integral metrics. (Russian) (*see* **90d:00029**)
Knopfmacher, Arnold (*with* Knopfmacher, John) Inverse polynomial expansions of Laurent series. **90c:41028**
Knopfmacher, John *see* **Knopfmacher, Arnold, 90c:41028**
Konyagin, S. V. On continuous operators of generalized rational approximation. (Russian) **90a:41014**
Kovacheva, R. K. The density of alternation points of rational approximation to a real-valued function. **90j:41028**
Moskona, E. S. (*with* Petrushev, P. P.) Characterization of the rational approximation in uniform metrics. **90c:41029**
Ogawa, Shirô *see* **Zhang, Guofeng, 90f:41011**

Paramonov, P. V. Rational approximation near zero sets of functions. **90j:41029**
Petrushev, P. P. *see* **Moskona, E. S., 90c:41029**
Ramazanova, G. M. Rational approximation of convex functions in an Orlicz metric. (Russian) **90c:41030**
Reddy, A. R. On rational approximation to $|X|$. **90g:41023**
Ruttan, Arden (*with* Varga, Richard S.) Real vs. complex rational Chebyshev approximation on an interval. **90j:41030**
Schmidt, Darrell Another case of nonexistence in rational Chebyshev approximation with interpolatory constraints. **90m:41026**
Serbin, Steve M. *see* **Bales, Laurence A.; et al., 90c:41026**
Varga, Richard S. *see* **Ruttan, Arden, 90j:41030**
Wulbert, Daniel Complex approximation of real functions by reciprocals of polynomials. **90c:41031**
Zagirov, N. Sh. Order of approximation of step functions by rational fractions. (Russian) **90d:41026**
Zhang, Guofeng (*with* Ogawa, Shirô) Uniform convergence of multivariate interpolating rational functions. **90f:41011**

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Andersson, J.-E. Rational approximation to functions like x^α in integral norms. (Russian summary) **90a:30103**
Ball, Joseph A. (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**
de Bruin, M. G. Sudden symmetry in simultaneous approximation. **90i:30059**
Doha, E. H. Rational and polynomial approximations from ultraspherical series for linear differential equations. **90f:65027**
Freund, M. The degree of rational approximation to meromorphic functions. (German and Russian summaries) **90a:30105**
Gamelin, T. W. (*with* Khavinson, Dmitry) The isoperimetric inequality and rational approximation. **90d:30108**
Gohberg, I. *see* **Ball, Joseph A.; et al., 90m:47002**
González-Concepción, C. Convergence of some matrix Padé-type approximants to the exponential. **90i:30060**
Grothmann, R. (*with* Saff, E. B.) On the behavior of zeros and poles of best uniform polynomial and rational approximants. **90f:30044**
Illán González, Jesús On the characterization of convergence in a fraction space and numerical integration in H^p-spaces. (Spanish. English summary) **90h:65025**
Khavinson, Dmitry F. and M. Riesz theorem, analytic balayage, and problems in rational approximation. **90e:30039**
— *see also* **Gamelin, T. W., 90d:30108**
Kovacheva, R. K. On the behaviour of Chebyshev rational functions with a fixed number of poles. **90d:30109**
Kowalski, Marek A. On approximation of band-limited signals. **90i:94006**
Lascoux, Alain Interpolation de Lagrange. [Lagrange interpolation] **90m:41008**
Lau, T. C. *see* **Lawson, John Douglas, 90c:41037**
Lawson, John Douglas (*with* Lau, T. C.) Order constrained Chebyshev rational approximation. **90c:41037**
Lutterodt, C. H. Rational approximants of hypergeometric series in C^N. **90k:32054**
Magnus, Alphonse P. On the use of the Carathéodory-Fejér method for investigating "$\frac{1}{9}$" and similar constants. **90j:65035**
Nersesyan, Ashot A. Alice Roth's fusion lemma. **90c:30063**
Parusnikov, V. I. The Jacobi-Perron algorithm and simultaneous rational approximations. (Russian) (*see* **90d:00046**)
Renaut, R. A. Semidiscretisations of $u_{tt} = u_{xx}$ and rational approximations to $(\ln z)^2$. **90h:65149**
— Full discretisations of $u_{tt} = u_{xx}$ and rational approximations to $\cosh \mu z$. **90h:65150**
Rodman, Leiba *see* **Ball, Joseph A.; et al., 90m:47002**
Saff, E. B. *see* **Grothmann, R., 90f:30044**
Starovoĭtov, A. P. Rational approximation of functions that are differentiable in the Riemann-Liouville sense. (Russian) (*see* **90d:00046**)

41A21 Padé approximation

Baker, George A., Jr. Integral approximants for functions of higher monodromic dimension. **90h:41020**
Bandyopadhyay, B. (*with* Rao, A. Kailasa; Singh, H.) On Padé approximation for multivariable systems. (Not in MR)
Basu, Sankar Padé approximants to matrix Stieltjes series: convergence and related properties. **90j:41031**
de Bruin, M. G. A two-point Padé table and a Padé-2-table. **90f:41012**
— Simultaneous rational approximation to some q-hypergeometric functions. **90i:41027**
Cabay, Stan *see* **Labahn, George, 90k:41023**
Casasús, L. (*with* González-Vera, P.) Orthogonal polynomials and geometric convergence of Padé-type approximants. **90f:41013**
Chaffy-Camus, Claudine An application of REDUCE to the approximation of $f(x, y)$. **90m:41027**
Draux, André Convergence of Padé approximants in a noncommutative algebra. **90f:41014**
Golub, A. P. Proofs of Padé and van Rossum theorems using generalized moment representations. (Russian) **90d:41027**
González-Vera, P. *see* **Casasús, L., 90f:41013**
Huang, You Du On the existence of the Chebyshev-Padé approximation and the structure of the CP table. (Chinese. English summary) **90b:41027**
Karan, Bhuwan M. (*with* Srivastava, Mahesh C.) A new multidimensional rational approximant. **90f:41015**
Kida, Sôsaburô (*with* Ogawa, Shirô) Determinantal expressions of multivariate Páde-type approximants. **90c:41032**
Kovacheva, R. K. Generalized Padé approximants of Kakehashi's type and meromorphic continuation of functions. **90b:41028**
Labahn, George (*with* Cabay, Stan) Matrix Padé fractions and their computation. **90k:41023**
López Lagomasino, Guillermo (*with* Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. **90d:41028**
Lubinsky, D. S. On uniform convergence of rational, Newton-Padé interpolants of type (n, n) with free poles as $n \to \infty$. **90d:41029**
Ogawa, Shirô *see* **Kida, Sôsaburô, 90c:41032**
Parusnikov, V. I. The Jacobi-Perron algorithm and simultaneous rational approximations. (Russian) (*see* **90d:00046**)
Rakhmanov, E. A. *see* **López Lagomasino, Guillermo, 90d:41028**
Rao, A. Kailasa *see* **Bandyopadhyay, B.; et al.,** (Not in MR)
Singh, H. *see* **Bandyopadhyay, B.; et al.,** (Not in MR)
Srivastava, Mahesh C. *see* **Karan, Bhuwan M., 90f:41015**

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Brezinski, Claude Error estimate in Padé approximation. **90b:41048**
— Procedures for estimating the error in Padé approximation. **90b:65034**
Chaffy-Camus, Claudine $(\text{Padé})_y$ of $(\text{Padé})_x$ approximants of $F(x, y)$. **90g:65007**
Chudnovsky, David V. (*with* Chudnovsky, Gregory V.) Use of computer algebra for Diophantine and differential equations. **90e:11096**
Chudnovsky, Gregory V. *see* **Chudnovsky, David V., 90e:11096**
Cuyt, Annie (*with* Verdonk, Brigitte) Evaluation of branched continued fractions using block-tridiagonal linear systems. **90a:65039**
Gilewicz, Jacek (*with* Truong-Van, Benoit) Froissart doublets in the Padé approximation and noise. **90h:30006**
— From a numerical technique to a method in the best Padé approximation. **90i:65034**
Golub, A. P. Convergence of denominators of simultaneous Padé approximants for a set of degenerate hypergeometric functions. **90a:30106**
— Generalized moment representations of basic hypergeometric series. **90k:33008**
— A system of bi-orthogonal polynomials and its applications. **90m:33010**
Hovstad, R. M. The classical irrationality problem for T-fractions. **90m:40001**
Irwin, M. C. Geometry of continued fractions. **90j:11063**
Jones, William B. (*with* Thron, W. J.) Continued fractions in numerical analysis. **90e:65021**
— (*with* Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. **90e:42027**
Knopfmacher, Arnold (*with* Knopfmacher, John) Inverse polynomial expansions of Laurent series. **90c:41028**
Knopfmacher, John *see* **Knopfmacher, Arnold, 90c:41028**
Kovacheva, R. K. Diagonal Padé approximants, rational Chebyshev approximants and poles of functions. **90f:30046**
Lin, Jing[1] On the convergence of the Padé table. **90k:30076**
Martínez Finkelshtein, Andrei On the mth row of Newton type (α, β)-Padé tables and singular points. **90f:30047**
Njåstad, Olav Multipoint Padé approximation and orthogonal rational functions. **90k:30005**
— *see also* **Jones, William B.; et al., 90e:42027**
Pindor, M. An application of operator Padé approximants to multireggeon processes. **90h:81201**
Renaut, R. A. Semidiscretisations of $u_{tt} = u_{xx}$ and rational approximations to $(\ln z)^2$. **90h:65149**
— Full discretisations of $u_{tt} = u_{xx}$ and rational approximations to $\cosh \mu z$. **90h:65150**
Stahl, Herbert Asymptotics of Hermite-Padé polynomials and related convergence results—a summary of results. **90h:30088**
— On the convergence of generalized Padé approximants. **90i:30063**
Thron, W. J. *see* **Jones, William B.; et al., 90e:42027** *and* **90e:65021**
Truong-Van, Benoit *see* **Gilewicz, Jacek, 90h:30006**
Verdonk, Brigitte *see* **Cuyt, Annie, 90a:65039**

41A25 Rate of convergence, degree of approximation

Agrawal, Purshottam Narain *see* **Gupta, Vijay, 90m:41028**
Anastassiou, George A. The rate of weak convergence of convex type positive finite measures. **90a:41015**
Bojanić, R. (*with* Chêng, Fu Hua) Rate of convergence of Bernstein polynomials for functions with derivatives of bounded variation. **90h:41021**
Boyanov, Borislav D. (*with* Huang, Da Ren) Comparison of recovery schemes based on end-point values. **90b:41029**
Cao, Jia Ding (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. III. Estimates for some numerical approximation schemes. **90k:41024**
Chêng, Fu Hua *see* **Bojanić, R., 90h:41021**
Dickmeis, W. (*with* Mevissen, H.; Nessel, R. J.; van Wickeren, E.) Sequential convergence and approximation in the space of Riemann integrable functions. **90f:41017**
Gonska, Heinz H. *see* **Cao, Jia Ding, 90k:41024**
Gupta, Vijay (*with* Agrawal, Purshottam Narain) Linear combinations of Phillips operators. **90m:41028**
Huang, Da Ren *see* **Boyanov, Borislav D., 90b:41029**
Kasana, H. S. A note on uniform approximation by linear combinations of modified Bernstein polynomials. **90j:41032**
Liu, Rui Zhen On the approximation of differentiable functions by Vallée-Poussin sums of T-F series. **90m:41029**
Mevissen, H. (*with* Nessel, R. J.; van Wickeren, E.) A quantitative Bohman-Korovkin theorem and its sharpness for Riemann integrable functions. (German and Russian summaries) **90f:41016**
— *see also* **Dickmeis, W.; et al., 90f:41017**
Nessel, R. J. *see* **Mevissen, H.; et al., 90f:41016** *and* **Dickmeis, W.; et al., 90f:41017**
Nishishiraho, Toshihiko The order of approximation by positive linear operators. **90c:41033**
Saff, E. B. (*with* Totik, V.) Polynomial approximation of piecewise analytic functions. **90i:41028**
Sun, Xie Hua On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. **90e:41010**

Tian, Ji Shan (*with* Wang, Zi Yu) On the approximation of the continuous functions by some Hermite-Fejér interpolation polynomials. **90i:41029**
Totik, V. *see* **Saff, E. B., 90i:41028**
Wang, Zi Yu *see* **Tian, Ji Shan, 90i:41029**
van Wickeren, E. *see* **Mevissen, H.; et al., 90f:41016** *and* **Dickmeis, W.; et al., 90f:41017**
Zhang, Yan^2 Convergence and approximation properties of generalized Abel means on real $H^p(\mathbf{R}^n)$ spaces $(0 < p \le 1)$. (Chinese. English summary) **90a:41016**

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Aĭnulloev, N. Best approximation of certain classes of differentiable functions in L_2. (Russian) (*see* **90m:00015**)
Amiar, Rachida *see* **Vasil′ev, R. K., 90d:41040**
Badalyan, G. V. (*with* Edigaryan, V. M.) Generalization of a problem of Mendeleev. (Russian. English and Armenian summaries) **90d:41008**
Balázs, Katherine (*with* Kilgore, Theodore) On the simultaneous approximation of derivatives by Lagrange and Hermite interpolation. **90m:41030**
Beatson, R. K. (*with* Wolkowicz, H.) Post-processing piecewise cubics for monotonicity. **90i:65019**
Bruj, I. N. (*with* Joó, István) On a theorem of L. Leindler. **90h:42011**
Cavaretta, A. S., Jr. (*with* Dikshit, H. P.; Sharma, Ambikeshwar) Convergence of certain polynomial interpolants to a function defined on the unit circle. **90d:30107**
Chandra, Prem Functions in L_p-space and their approximations. (Serbo-Croatian summary) **90e:42002**
Chen, Wen Zhong (*with* Guo, Shun Sheng) The degree of pointwise approximation of the Meyer-König-Zeller operator for functions of bounded variation. (Chinese) **90k:41009**
Cismaşiu, Cristina S. A linear positive operator associated with the Pearson's χ^2 distribution. (Romanian summary) **90f:41026**
Dikshit, H. P. *see* **Cavaretta, A. S., Jr.; et al., 90d:30107**
Ditzian, Z. (*with* Ivanov, Kamen G.) Bernstein-type operators and their derivatives. **90c:41042**
— Best polynomial approximation and Bernstein polynomial approximation on a simplex. **90j:41007**
Donoho, David L. (*with* Johnstone, Iain) Projection-based approximation and a duality with kernel methods. **90k:62131**
Edigaryan, V. M. *see* **Badalyan, G. V., 90d:41008**
Fawzy, Th. (0, 2, 4) lacunary interpolation with G-splines. **90c:41015a**
— Lacunary interpolation by splines (0, 2, 3) case. **90c:41015b**
Freund, M. The degree of rational approximation to meromorphic functions. (German and Russian summaries) **90a:30105**
Gaĭmnazarov, G. Properties of functions in the spaces $L_p(-\infty,\infty)$, $0 < p < 1$, with given best approximations. (Russian. Tajiki summary) **90f:46051**
Gonska, Heinz H. Degree of approximation by lacunary interpolators: $(0,\cdots,R-2,R)$ interpolation. **90i:41006**
Guo, Shun Sheng On the rate of convergence of the integrated Meyer-König and Zeller operators for functions of bounded variation. **90g:41031**
— *see also* **Chen, Wen Zhong, 90k:41009**
Heilmann, M. (*with* Müller, Manfred Wolfgang) On simultaneous approximation by the method of Baskakov-Durrmeyer operators. **90f:41024**
— On simultaneous approximation by optimal algebraic polynomials. **90j:41033**
Hsiao, Shêng Yen (*with* Yeh, Cheh Chih) Rates for approximation of unbounded functions by positive linear operators. **90f:41028**
Illán González, Jesús On the rational approximation of H^p functions in the $L_p(\mu)$ metric. **90g:41022**
Ivanov, Kamen G. *see* **Ditzian, Z., 90c:41042** *and* **Khristov, Vladimir Kh., 90k:41027**
Johnstone, Iain *see* **Donoho, David L., 90k:62131**
Joó, István *see* **Bruj, I. N., 90h:42011**
Khristov, Vladimir Kh. (*with* Ivanov, Kamen G.) Operators for onesided approximation of functions. **90k:41027**
Kilgore, Theodore *see* **Balázs, Katherine, 90m:41030**
Kirschfink, H. The generalized Trotter operator and weak convergence of dependent random variables in different probability metrics. **90g:60023**
Knopfmacher, Arnold (*with* Knopfmacher, John) Inverse polynomial expansions of Laurent series. **90c:41028**
Knopfmacher, John *see* **Knopfmacher, Arnold, 90c:41028**
Lenski, Włodzimierz On the degrees of strong approximation by some trignometric polynomials. **90d:42006**
Leviatan, D. (*with* Levin, A. L.; Saff, E. B.) On approximation in the L^p-norm by reciprocals of polynomials. **90i:41017**
— Monotone polynomial approximation in L^p. **90j:41036**
Levin, A. L. *see* **Leviatan, D.; et al., 90i:41017**
López Lagomasino, Guillermo (*with* Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. **90d:41028**
Lupaş, Alexandru *see* **Lupaş, Luciana, 90a:41020**
Lupaş, Luciana (*with* Lupaş, Alexandru) Polynomials of binomial type and approximation operators. (Romanian summary) **90a:41020**
Luquín Martínez, Francisco Some properties of two-dimensional Bernstein polynomials. **90k:41013**
Ma, Yong Pei *see* **Yu, Xiang Ming, 90d:41014**
Mazhar, S. M. On the degree of approximation by modified Szász operator. **90m:41035**
Miroshnichenko, V. L. Exact error bounds for the periodic cubic and spline interpolation on the uniform mesh. **90d:41021**
Müller, Manfred Wolfgang Approximation by Cheney-Sharma-Kantorovič polynomials in the L_p-metric. **90k:41034**
— *see also* **Heilmann, M., 90f:41024**
Nevai, Paul (*with* Vértesi, Péter) Convergence of Hermite-Fejér interpolation at zeros of generalized Jacobi polynomials. **90i:41009**
Nishishiraho, Toshihiko Quantitative estimates for approximation by positive linear operators. **90f:41029**
Ogawa, Shirô *see* **Zhang, Guofeng, 90f:41011**
Peyerimhoff, A. (*with* Stickel, E.; Wirsing, E.) On the rate of convergence for two-term recursions. (German summary) **90e:65033**
Prestin, Jürgen Trigonometric approximation by Euler means. **90j:42007**
Pych-Taberska, Paulina On the rate of pointwise convergence of Bernstein and Kantorovič polynomials. **90a:41006**
Quak, Ewald L_p-error estimates for positive linear operators using the second-order τ-modulus. (Russian summary) **90f:41030**
— Multivariate L_p-error estimates for positive linear operators via the first-order τ-modulus. **90f:41031**
Rakhmanov, E. A. *see* **López Lagomasino, Guillermo, 90d:41028**
Razi, Q. *see* **Umar, S., 90j:41039**
Saff, E. B. (*with* Totik, V.) Limitations of the Carathéodory-Fejér method for polynomial approximation. **90i:30062**
— (*with* Totik, V.) Behavior of polynomials of best uniform approximation. **90d:30113**
— *see also* **Leviatan, D.; et al., 90i:41017**
Sharma, Ambikeshwar *see* **Cavaretta, A. S., Jr.; et al., 90d:30107**
Shen, Xie Chang (*with* Xing, Fu Chong) The problem of best approximation by polynomials in the spaces H^p_q $(0 < p < 1,\ q > 1)$. (Chinese. English summary) **90a:30111**
Stickel, E. *see* **Peyerimhoff, A.; et al., 90e:65033**
Subbotin, Yu. N. The dependence of estimates of a multidimensional piecewise-polynomial approximation on the geometric characteristics of a triangulation. (Russian) **90h:41009**
Sun, Xie Hua Lagrange interpolation of functions of generalized bounded variation. **90e:41003**
Szabados, J. (*with* Vértesi, Péter) On simultaneous optimization of norms of derivatives of Lagrange interpolation polynomials. **90i:41012**
Tachev, Gancho T. Direct estimation for approximation by Bernstein polynomials in $L_p[0,1]$ $(0 < p < 1)$. **90m:41019**
Takev, Milko D. A theorem of Whitney type in $\mathbf{R}^n$. **90j:41011**
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Umar, S. (*with* Razi, Q.) Approximation by modified Szász operators. **90j:41039**
Utreras, Florencio I. Boundary effects on convergence rates for Tikhonov regularization. **90b:65029**
Vasil′ev, R. K. (*with* Amiar, Rachida) Sur les théorèmes quantitatifs du type Korovkin. (English summary) [On quantitative theorem of Korovkin type] **90d:41040**
Vértesi, Péter *see* **Nevai, Paul, 90i:41009** *and* **Szabados, J., 90i:41012**
van Wickeren, E. On the approximation of Riemann integrable functions by Bernstein polynomials. **90k:41035**
Wirsing, E. *see* **Peyerimhoff, A.; et al., 90e:65033**
Wolkowicz, H. *see* **Beatson, R. K., 90i:65019**
Xing, Fu Chong *see* **Shen, Xie Chang, 90a:30111**
Xu, Shu Sheng A theorem about Hasson's conjecture. (Chinese. English summary) **90j:41012**
Yeh, Cheh Chih *see* **Hsiao, Shêng Yen, 90f:41028**
Yu, Xiang Ming Degree of comonotone polynomial approximation. **90c:41038**
— Convex approximation of differentiable functions. **90f:41006**
— (*with* Ma, Yong Pei) Generalized monotone approximation in L_p space. **90d:41014**
Zhang, Guofeng (*with* Ogawa, Shirô) Uniform convergence of multivariate interpolating rational functions. **90f:41011**
Zhou, Song Ping A problem on simultaneous approximation and a conjecture of Hasson. **90a:41008**
— On the accurate order of approximation of some classes of functions. **90j:41014**
Zmatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) **90h:41010**

41A27 Inverse theorems

Heilmann, M. Direct and converse results for operators of Baskakov-Durrmeyer type. **90k:41025**
Mel′nik, Yu. I. Inverse theorems for approximating functions that are regular in convex polygons by exponential polynomials in an integral metric. **90c:41034**
van Wickeren, E. Direct and inverse theorems for Bernstein polynomials in the space of Riemann integrable functions. **90d:41030**

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Ditzian, Z. (*with* Totik, V.) Remarks on Besov spaces and best polynomial approximation. **90b:41013**
— (*with* Ivanov, Kamen G.) Bernstein-type operators and their derivatives. **90c:41042**
Dryanov, D. P. (*with* Rahman, Q. I.; Schmeisser, G.) Equivalence theorems for quadrature on the real line. **90m:65053**
Ivanov, Kamen G. *see* **Ditzian, Z., 90c:41042**
Rahman, Q. I. *see* **Dryanov, D. P.; et al., 90m:65053**
Schmeisser, G. *see* **Dryanov, D. P.; et al., 90m:65053**
Stepanets, A. I. (*with* Zhukina, E. I.) Inverse theorems for the approximation of (ψ,β)-differentiable functions. **90k:42007**
Totik, V. *see* **Ditzian, Z., 90b:41013**
Zhukina, E. I. *see* **Stepanets, A. I., 90k:42007**

41A28 Simultaneous approximation

Balázs, Katherine (*with* Kilgore, Theodore) On the simultaneous approximation of derivatives by Lagrange and Hermite interpolation. **90m:41030**
Heilmann, M. On simultaneous approximation by optimal algebraic polynomials. **90j:41033**
Kannan, V. (*with* Ravichandran, S.) Simultaneous best approximation by three polynomials. **90j:41034**
Kilgore, Theodore *see* **Balázs, Katherine, 90m:41030**
Li, Chong Characteristics of nonlinear simultaneous Chebyshev approximation. (Chinese. English summary) **90a:41017**
Narayanaswamy, Indira Simultaneous approximation and interpolation with norm-preservation by Tchebysheffian splines. **90c:41035**

Ravichandran, S. *see* **Kannan, V., 90j:41034**
Sahab, Salem M. A. On the monotone simultaneous approximation on $[0, 1]$. **90c:41036**
— Bounded measurable simultaneous monotone approximation. **90k:41026**
Zhou, Song Ping A problem on simultaneous approximation and a conjecture of Hasson. **90j:41035**

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de Bruin, M. G. Simultaneous rational approximation to some q-hypergeometric functions. **90i:41027**
— Sudden symmetry in simultaneous approximation. **90i:30059**
Mazhar, S. M. On the degree of approximation by modified Szász operator. **90m:41035**
Pevac, Lazar Chebyshev centres in normed spaces: a geometrical approach. **90h:41036**
Stepanets, A. I. Simultaneous approximation of functions and their (ψ, β)-derivatives by Fourier sums. **90k:42011**
Zhou, Song Ping A problem on simultaneous approximation and a conjecture of Hasson. **90a:41008**

41A29 Approximation with constraints

Derbenëva, B. P. Finiteness of the linearization method for a linear problem of approximation in the mean with constraints. (Russian) **90f:41018**
Fang, Gen Sun PF density, Chakhkiev's condition and some related extremal problems. **90d:41031**
Huotari, Robert (*with* Legg, David; Townsend, Douglas) Existence of best n-convex approximants in L_1. **90m:41031**
Ivanov, Kamen G. *see* **Khristov, Vladimir Kh., 90k:41027**
Khristov, Vladimir Kh. (*with* Ivanov, Kamen G.) Operators for onesided approximation of functions. **90k:41027**
Kovtunets, V. V. Differentiation of an operator of best one-sided approximation. (Russian) (*see* **90d:00009**)
Lau, T. C. *see* **Lawson, John Douglas, 90c:41037**
Lawson, John Douglas (*with* Lau, T. C.) Order constrained Chebyshev rational approximation. **90c:41037**
Legg, David *see* **Huotari, Robert; et al., 90m:41031**
Lenze, Burkhard On one-sided approximation operators induced by special convolution kernels. **90k:41028**
Leviatan, D. Monotone polynomial approximation in L^p. **90j:41036**
Sahab, Salem M. A. Monotone L^p-approximation of a bounded derivative. **90m:41032**
Stojanova, Milena The best one-sided algebraic approximation in $L_p[-1, 1]$ $(1 \le p \le \infty)$. **90k:41029**
Townsend, Douglas *see* **Huotari, Robert; et al., 90m:41031**
Tsachev, Tsvetomir J. An l_2 constrained best approximation problem. (Not in MR)
Ubhaya, Vasant A. L_p approximation by quasi-convex and convex functions. **90h:41022**
Yu, Xiang Ming Degree of comonotone polynomial approximation. **90c:41038**
— On comonotone approximation and coconvex approximation of differentiable functions. (Chinese. English summary) **90i:41030**
Zhu, Chang Zhong Continuous dependence of linear approximations with constraints. (Chinese. English summary) **90g:41024**

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Chandrasekaran, K. R. Best coapproximation in normed linear spaces by elements of one- and two-dimensional subspaces. **90m:41051**
Erdélyi, T. Markov-type estimates for certain classes of constrained polynomials. **90f:41009**
Ferris, M. C. (*with* Philpott, A. B.) An interior point algorithm for semi-infinite linear programming. **90e:90077**
Gal, S. G. Aproximation of continuous functions by monotone sequences of polynomials with restricted coefficients. **90d:41010**
— Constructive approximation by monotonous polynomial sequences in $\mathrm{Lip}_M\,\alpha$, with $\alpha \in (0, 1]$. **90k:41010**
Jones, Lee Kenneth Approximation-theoretic derivation of logarithmic entropy principles for inverse problems and unique extension of the maximum entropy method to incorporate prior knowledge. **90d:94004**
Kounchev, Ognyan Extremal problems for the distributed moment problem. **90f:31007**
Lubinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. **90e:41014**
Micchelli, Charles A. Monosplines and moment preserving spline approximation. **90j:41024**
Philpott, A. B. *see* **Ferris, M. C., 90e:90077**
Pinkus, Allan M. (*with* Strauss, Hans) One-sided L^1-approximation to differentiable functions. **90a:41023**
— (*with* Strauss, Hans) Best approximation with coefficient constraints. **90d:41052**
Schmidt, Darrell Another case of nonexistence in rational Chebyshev approximation with interpolatory constraints. **90m:41026**
Sonnevend, G. Necessary and sufficient conditions for interpolation with functions having monotone rth derivatives. (Russian summary) **90h:41008**
Strauss, Hans *see* **Pinkus, Allan M., 90a:41023** *and* **90d:41052**
Sun, Xingping On a problem in monotone approximation. **90g:41039**
Swetits, J. J. (*with* Weinstein, S. E.) Construction of a best monotone approximation in l_p for $1 < p < \infty$. **90m:41045**
— (*with* Weinstein, S. E.; Xu, Yue Sheng) On the characterization and computation of best monotone approximation in $L_p[0, 1]$ for $1 \le p < \infty$. **90j:41047**
Weinstein, S. E. *see* **Swetits, J. J.; et al., 90j:41047** *and* **90m:41045**
Xu, Yue Sheng *see* **Swetits, J. J.; et al., 90j:41047**

41A30 Approximation by other special function classes

Artstein, Zvi Piecewise linear approximations of set-valued maps. **90g:41025**
Babaev, M.-B. A. An estimate for the rate that the best approximation by piecewise-quasipolynomial functions tends to zero. (Russian) (*see* **90i:00006**)
Badea, C. (*with* Badea, I.; Cottin, C.) A Korovkin-type theorem for generalizations of Boolean sum operators and approximation by trigonometric pseudopolynomials. **90f:41019**
Badea, I. *see* **Badea, C.; et al., 90f:41019**
Bardaro, C. (*with* Gori Cocchieri, C.) On the approximation of a function by singular integrals. (Italian. English summary) **90c:41039**
Berdyshev, V. I. On approximation by the Lipschitz class and on best trajectories. (Russian) (*see* **90i:00006**)
Bilalov, B. T. The basis property of some systems of functions. (Russian) **90b:41030**
Cottin, C. *see* **Badea, C.; et al., 90f:41019**
Criscuolo, Giuliana (*with* Mastroianni, Giuseppe) On the approximation of the derivatives of P.V. integrals. (*see* **90a:41001**)
Cybenko, G. Approximation by superpositions of a sigmoidal function. **90m:41033**
Darst, R. B. (*with* Fu, Shu Sheng) Approximation of integrable, approximately continuous functions on $(0, 1)^n$ by nondecreasing functions. **90f:41020**
Daugavet, V. A. (*with* Sazonova, L. V.) Some problems in multidimensional approximation. (Russian) **90d:41032**
Đinh, Dung Linear methods for the smoothing of functions on a torus. (Russian) (*see* **90m:00040**)
Dunham, Charles B. Chebyshev approximation by powered products. **90b:41031**
Fu, Shu Sheng *see* **Darst, R. B., 90f:41020**
Goldstein, Myron (*with* Ow, W. H.) Uniform harmonic approximation with continuous extension to the boundary. **90d:41033**
Gori Cocchieri, C. *see* **Bardaro, C., 90c:41039**
Gupta, Rajendra Prasad (*with* Verma, S. K.; Prakash, Ved) On the degree of approximation of functions belonging to the Lipschitz class by Karamata method. (Hindi. English summary) **90j:41037**
Ivanov, V. I. Approximation in L_p by piecewise constant functions. **90b:41032**
Jain, Suresh Chandra (*with* Pathak, Ashutosh) Approximation of a function by its Jacobi expansion. (Hindi. English summary) **90j:41038**
Joó, István On the order of approximation by Fejér means of Hermite-Fourier and Laguerre-Fourier series. **90d:41034**
Kogan, D. A. Kernels that are equivalent in the sense of approximation to the Riesz kernel. (Russian) **90f:41021**
Kowalski, Marek A. (*with* Sielski, Waldemar) Approximation of smooth periodic functions in several variables. **90g:41026**
Lizorkin, P. I. (*with* Nikol'skiĭ, S. M.) Approximation by spherical polynomials in L_p (the case of symmetric differences). (Russian) **90g:41027**
Loginov, A. S. An estimate, in terms of the modulus of smoothness, for the approximation of continuous functions by piecewise linear functions. (Russian) (*see* **90d:00020**)
Maĭmeskul, V. V. On the approximation of continuous functions by traces of generalized solutions of the Beltrami equation. (Russian) (*see* **90d:00046**)
Mastroianni, Giuseppe *see* **Criscuolo, Giuliana, (90a:41001)**
Mel'nik, Yu. I. Approximation of functions that are regular in convex polygons by exponential polynomials. **90d:41035**
Nagornov, V. S. Fourier approximation of a curve with an adaptation of a parametric representation: an extremal property of approximations that preserve the direction of the tangent. (Russian) **90a:41018**
Nikol'skiĭ, S. M. *see* **Lizorkin, P. I., 90g:41027**
Ow, W. H. *see* **Goldstein, Myron, 90d:41033**
Pathak, Ashutosh *see* **Jain, Suresh Chandra, 90j:41038**
Pichugov, S. A. Sharp estimates for approximation in L_p by functions of the form $\varphi(x) + \psi(y)$. **90d:41036**
Prakash, Ved *see* **Gupta, Rajendra Prasad; et al., 90j:41037**
Sazonova, L. V. *see* **Daugavet, V. A., 90d:41032**
Sielski, Waldemar *see* **Kowalski, Marek A., 90g:41026**
Smirnov, G. A. Approximation of continuous matrix functions. (Russian) (*see* **90m:00015**)
Sun, Xie Hua On approximation of continuous functions by Jacobi series. **90c:41040**
Tsalyuk, V. Z. Lipschitz approximation of a multivalued function that satisfies the Carathéodory condition. (Russian) **90g:41028**
Ubhaya, Vasant A. Uniform approximation by quasi-convex and convex functions. **90g:41029**
Ugulava, D. K. Approximation by entire functions of exponential type. (Russian) **90m:41034**
Vavilov, V. V. Approximation of continuous functions by potentials. (Russian) (*see* **90m:00040**)
Verma, S. K. *see* **Gupta, Rajendra Prasad; et al., 90j:41037**
Zwick, D. Some aspects of best n-convex approximation. **90b:41033**

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Badalyan, G. V. (*with* Edigaryan, V. M.) Generalization of a problem of Mendeleev. (Russian. English and Armenian summaries) **90d:41008**
Bojanić, R. An estimate for the rate of convergence of a general class of orthogonal polynomial expansions of functions of bounded variation. **90a:42018**
Cornea, Octav Weak discontinuities and discrete approximations. **90e:54020**
Cunningham, Michael John *see* **Oakley, John Peter; et al., 90k:42050**
Doktor, Pavel Smooth functions and zero traces. **90j:46034**
Edigaryan, V. M. *see* **Badalyan, G. V., 90d:41008**
Galeev, È. M. Approximation of periodic functions of one and several variables. (*see* **90a:41001**)
Garkavi, A. L. On the Haar condition for systems of vector-valued functions. **90g:41006**
Goodman, T. N. T. (*with* Unsworth, K.) Shape preserving interpolation by curvature continuous parametric curves. **90e:65010**
Guo, Shun Sheng (*with* Xu, Li Zhi) Characterization of the class $\mathrm{Lip}^*\alpha$ of periodic functions by means of the Rappoport operator. **90d:42003**
Heinig, Georg (*with* Hoppe, Wolfram; Rost, Karla) Structured matrices in interpolation and approximation problems. (German summary) **90g:41002**
Hoppe, Wolfram *see* **Heinig, Georg; et al., 90g:41002**
Huotari, Robert (*with* Legg, David; Townsend, Douglas) Existence of best n-convex approximants in L_1. **90m:41031**

Khabibullin, B. N. Asymptotic approximation of subharmonic functions by subharmonic functions with special properties. (Russian) **90b:31003**
Khadzhiĭski, Vanya On the best L_p-approximation on the real line by entire functions of exponential type. (Bulgarian. English and Russian summaries) **90b:30046**
Legg, David (*with* Townsend, Douglas) The Pólya algorithm for convex approximation. **90j:41062**
— *see also* **Huotari, Robert; et al., 90m:41031**
Little, Graham *see* **Oakley, John Peter; et al., 90k:42050**
Meinardus, Günter On the Gauss transform of polynomial spline spaces. **90m:41023**
Mumford, David (*with* Shah, Jayant) Optimal approximations by piecewise smooth functions and associated variational problems. **90g:49033**
Nevai, Paul Characterization of measures associated with orthogonal polynomials on the unit circle. **90m:42034a**
— Correction to: "Characterizations of measures associated with orthogonal polynomials on the unit circle". **90m:42034b**
Oakley, John Peter (*with* Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N-dimensional space. **90k:42050**
O'Farrell, A. G. (*with* Preskenis, K. J.) Uniform approximation by polynomials in two functions. **90k:30077**
Oganesyan, S. M. An inverse problem of potential theory in the space $L_p(S)$ and approximation of elements in $W_p^r(S)$ by differentiable compactly supported functions. **90c:31010**
Preskenis, K. J. *see* **O'Farrell, A. G., 90k:30077**
Raĭtsin, R. A. Fourier-Chebyshev series of a class of functions. **90b:42006**
Rost, Karla *see* **Heinig, Georg; et al., 90g:41002**
Sahab, Salem M. A. On the monotone simultaneous approximation on [0, 1]. **90c:41036**
Shah, Jayant *see* **Mumford, David, 90g:49033**
Sun, Xie Hua On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. **90e:41010**
Townsend, Douglas *see* **Legg, David, 90j:41062** *and* **Huotari, Robert; et al., 90m:41031**
Unsworth, K. *see* **Goodman, T. N. T., 90e:65010**
Vakarchuk, S. B. Reconstruction of linear functionals on classes of differentiable functions of two variables from some generalized information. (Russian) **90h:65032**
Withers, Wm. Douglas Newton's method for fractal approximation. **90a:65289**
Xu, Li Zhi *see* **Guo, Shun Sheng, 90d:42003**
Ziemer, William P. Uniform differentiability of Sobolev functions. **90f:46054**

41A35 Approximation by operators (in particular, by integral operators)

Abdulofizov, Sh. (*with* Videnskiĭ, V. S.) Approximation by operators of Grof type. (Russian. Tajiki summary) **90k:41030**
Agrawal, Purshottam Narain *see* **Kasana, H. S.; et al., 90f:41025**
Amiar, Rachida *see* **Vasil′ev, R. K., 90d:41040**
Badea, C. (*with* Badea, I.; Cottin, C.; Gonska, Heinz H.) Notes on degree of approximation of B-continuous and B-differentiable functions. **90c:41041**
Badea, I. *see* **Badea, C.; et al., 90c:41041**
Baskakov, V. A. Approximation of different classes of functions by the same sequence of linear operators. (Russian) (*see* **90i:00006**)
Chen, Wen Zhong Generalized Lupas-Baskakov integral operators. (Chinese. English summary) **90d:41037**
Chui, C. K. (*with* He, Tian Xiao; Xu, Li Zhi) On a general class of multivariate linear smoothing operators. **90f:41022**
Colzani, Leonardo Is the approximation of a function by its Fejér means monotone? **90b:41034**
Cottin, C. *see* **Badea, C.; et al., 90c:41041**
Della Vecchia, Biancamaria On the preservation of Lipschitz constants for some linear operators. (Italian summary) **90i:41031**
Ditzian, Z. (*with* Ivanov, Kamen G.) Bernstein-type operators and their derivatives. **90c:41042**
Fernández Muñiz, José Luis On qualitative Korovkin theorems with A-distance. **90d:41038**
Gonska, Heinz H. *see* **Badea, C.; et al., 90c:41041**
Goodman, T. N. T. (*with* Sharma, Ambikeshwar) A modified Bernstein-Schoenberg operator. **90b:41035**
Guo, Shun Sheng (*with* Xu, Li Zhi) Some inverse theorems for a certain special class of operators. (*see* **90a:41001**)
— (*with* Khan, Mohammad Kazim) On the rate of convergence of some operators on functions of bounded variation. **90f:41023**
He, Tian Xiao *see* **Chui, C. K.; et al., 90f:41022**
Heilmann, M. (*with* Müller, Manfred Wolfgang) On simultaneous approximation by the method of Baskakov-Durrmeyer operators. **90f:41024**
Hermann, T. On the derivatives of positive linear operators. **90h:41023**
Ivanov, Kamen G. *see* **Ditzian, Z., 90c:41042**
Jiang, Xun Optimal linear algorithms for linear operators. (Chinese. English summary) **90i:41032**
Kasana, H. S. (*with* Prasad, Govind; Agrawal, Purshottam Narain; Sahai, Ashok) Modified Szász operators. **90f:41025**
Khan, Mohammad Kazim (*with* Peters, Michael A.) Lipschitz constants for some approximation operators of a Lipschitz continuous function. **90k:41031**
— *see also* **Guo, Shun Sheng, 90f:41023**
Kratz, Werner (*with* Stadtmüller, Ulrich) On the uniform modulus of continuity of certain discrete approximation operators. **90a:41019**
Lenze, Burkhard On multidimensional Lebesgue-Stieltjes convolution operators. **90k:41032**
Mencher, A. È. Approximation of differentiable functions by operators that satisfy the Videnskiĭ-Abdulofizov conditions. (Russian) (*see* **90m:00015**)
Müller, Manfred Wolfgang *see* **Heilmann, M., 90f:41024**
Păltănea, Radu Une classe générale d'opérateurs polynomiaux. [A general class of polynomial operators] **90e:41011**
Peters, Michael A. *see* **Khan, Mohammad Kazim, 90k:41031**
Prasad, Govind *see* **Kasana, H. S.; et al., 90f:41025**
Raşa, I. On some test systems in approximation by linear operators. **90i:41033**
Razi, Q. Degree of L_1-approximation to integrable functions by Bernstein type operators. **90b:41036**
Rzaev, R. M. Approximation of essentially continuous functions by singular integrals. (Russian) **90h:41024**
Sahai, Ashok *see* **Kasana, H. S.; et al., 90f:41025**
Sendov, Bl. Approximation with a minimal derivative. (Russian) **90d:41039**
Sharma, Ambikeshwar *see* **Goodman, T. N. T., 90b:41035**
Simonov, B. V. Approximation of differentiable functions by certain linear operators. (Russian) (*see* **90d:00046**)
Stadtmüller, Ulrich *see* **Kratz, Werner, 90a:41019**
Stepanets, A. I. Approximation by Fourier operators of functions that are defined on the real axis. **90b:41037**
Vasil′ev, R. K. (*with* Amiar, Rachida) Sur les théorèmes quantitatifs du type Korovkin. (English summary) [On quantitative theorem of Korovkin type] **90d:41040**
Videnskiĭ, V. S. *see* **Abdulofizov, Sh., 90k:41030**
Vogt, L. Approximation by linear combinations of positive convolution integrals. **90c:41043**
Xu, Li Zhi *see* **Chui, C. K.; et al., 90f:41022** *and* **Guo, Shun Sheng, (90a:41001)**

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Chen, Wen Zhong (*with* Guo, Shun Sheng) The degree of pointwise approximation of the Meyer-König-Zeller operator for functions of bounded variation. (Chinese) **90k:41009**
Cismaşiu, Cristina S. A linear positive operator associated with the Pearson's χ^2 distribution. (Romanian summary) **90f:41026**
Guo, Shun Sheng *see* **Chen, Wen Zhong, 90k:41009**
He, Ze Lin Approximation by a class of operators and best approximation in $L^p(G)$ with $1 < p < \infty$ and $G = \mathbf{R}$, $\mathbf{T}$, or $\mathbf{Z}$. (Chinese) **90g:43008**
Heilmann, M. Commutativity of operators from Baskakov-Durrmeyer type. **90g:41032**
— Direct and converse results for operators of Baskakov-Durrmeyer type. **90k:41025**
Kasana, H. S. A note on uniform approximation by linear combinations of modified Bernstein polynomials. **90j:41032**
Khan, Mohd. Saeed *see* **Sahab, Salem M. A.; et al., 90a:41032**
Li, Luo Qing Multivariate approximation theorems for Kantorovich polynomials. (Chinese. English summary) **90k:41012**
Liu, Rui Zhen On the approximation of differentiable functions by Vallée-Poussin sums of T-F series. **90m:41029**
Liu, Yong Ping The approximation properties of a class of trigonometric polynomial interpolation operators. (Chinese. English summary) **90b:42003**
Raşa, I. Generalized Bernstein operators and convex functions. (Romanian summary) **90f:41005**
Sahab, Salem M. A. (*with* Khan, Mohd. Saeed; Sessa, Salvatore) A result in best approximation theory. **90a:41032**
Sessa, Salvatore *see* **Sahab, Salem M. A.; et al., 90a:41032**
Sun, Xie Hua On the simultaneous approximation of functions and their derivatives by the Szász-Mirakyan operator. **90e:41010**
Vértesi, Péter Derivatives of projection operators. **90e:41005**
Zhao, Jing Hui L^p saturation for Stancu-Kantorovich operators. (Chinese. English summary) **90k:41036**

41A36 Approximation by positive operators

Burov, V. N. (*with* Koryanov, A. G.) Approximation of functions by nonlinear operators that are subordinate to sublinear monotone majorants. (Russian) **90k:41033**
Campiti, Michele A Korovkin-type theorem in the space of Riemann integrable functions. **90g:41030**
Cao, Jia Ding (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. **90d:41041a**
— (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. II. Gopengauz-type estimates. **90d:41041b**
Chen, Wen Zhong On a proposition of Ditzian. (Chinese. English summary) **90i:41034**
Cismaşiu, Cristina S. A linear positive operator associated with the Pearson's χ^2 distribution. (Romanian summary) **90f:41026**
Della Vecchia, Biancamaria On the monotonicity of the derivatives of the sequences of Favard and Baskakov operators. (Italian summary) **90c:41045**
— On monotonicity of some linear positive operators. **90c:41044**
Frenţiu, M. On the asymptotic aspect of the approximation of functions by means of the D. D. Stancu operators. **90f:41027**
Gasharov, N. G. Estimates for approximation by linear positive operators that preserve linear functions. (Russian) (*see* **90d:00009**)
Gonska, Heinz H. *see* **Cao, Jia Ding, 90d:41041a** *and* **90d:41041b**
Guo, Shun Sheng Degree of approximation to functions of bounded variation by certain operators. **90d:41042**
— On the rate of convergence of the integrated Meyer-König and Zeller operators for functions of bounded variation. **90g:41031**
Heilmann, M. Commutativity of operators from Baskakov-Durrmeyer type. **90g:41032**
Hsiao, Shêng Yen (*with* Yeh, Cheh Chih) Rates for approximation of unbounded functions by positive linear operators. **90f:41028**
Keimel, Klaus (*with* Roth, Walter) A Korovkin type approximation theorem for set-valued functions. **90g:41033**
Khan, Mohammad Kazim On the rate of convergence of Bernstein power series for functions of bounded variation. **90d:41043**
Koryanov, A. G. *see* **Burov, V. N., 90k:41033**
Lupaş, Alexandru *see* **Lupaş, Luciana, 90a:41020**
Lupaş, Luciana (*with* Lupaş, Alexandru) Polynomials of binomial type and approximation operators. (Romanian summary) **90a:41020**
Mazhar, S. M. On the degree of approximation by modified Szász operator. **90m:41035**
Mencher, A. È. Linear positive operators of Mirak′yan type. (Russian) **90m:41036**

Moldovan, Grigor An automorphism property of a class of polynomial-type positive convolutive operators. (Romanian summary) **90c:41046**
Müller, Manfred Wolfgang Approximation by Cheney-Sharma-Kantorovič polynomials in the L_p-metric. **90k:41034**
Nishishiraho, Toshihiko Quantitative estimates for approximation by positive linear operators. **90f:41029**
Păltănea, Radu Sur une classe d'opérateurs positifs. [On a class of positive operators] **90c:41047**
Pendina, T. P. On the saturation of algebraic linear positive operators associated with trigonometric kernels. (Russian) (*see* **90m:00015**)
Quak, Ewald L_p-error estimates for positive linear operators using the second-order τ-modulus. (Russian summary) **90f:41030**
— Multivariate L_p-error estimates for positive linear operators via the first-order τ-modulus. **90f:41031**
Raşa, I. On the monotonicity of sequences of Bernstein-Schnabl operators. (Not in MR)
Razi, Q. Approximation of functions by integral Meyer-König and Zeller operators. **90c:41048**
— *see also* **Umar, S., 90j:41039**
Roth, Walter *see* **Keimel, Klaus, 90g:41033**
Tomova, Snejana Approximation by Szász-Mirakijan operators in $L_p[0,\infty]$. **90b:41038**
Umar, S. (*with* Razi, Q.) Approximation by modified Szász operators. **90j:41039**
Videnskiĭ, V. S. Widths of certain families of linear positive operators. (Russian) (*see* **90m:00015**)
van Wickeren, E. On the approximation of Riemann integrable functions by Bernstein polynomials. **90k:41035**
Wood, B. Uniform approximation with positive linear operators generated by binomial expansions. **90d:41044**
Yang, Li Hua The expansion multiplier method for approximation problems. (Chinese. English summary) **90b:41039**
Yeh, Cheh Chih *see* **Hsiao, Shêng Yen, 90f:41028**

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Agrawal, Purshottam Narain *see* **Gupta, Vijay, 90m:41028**
Amiar, Rachida *see* **Vasil′ev, R. K., 90d:41040**
Anastassiou, George A. The rate of weak convergence of convex type positive finite measures. **90a:41015**
Baskakov, V. A. Comparison of orders of approximation of classes of functions of several variables. (Russian) (*see* **90m:00015**)
Blaga, Petru On a bivariate integral spline operator. (Romanian summary) **90c:41013**
Bojanić, R. (*with* Chêng, Fu Hua) Rate of convergence of Bernstein polynomials for functions with derivatives of bounded variation. **90h:41021**
Cao, Jia Ding (*with* Gonska, Heinz H.) Approximation by Boolean sums of positive linear operators. III. Estimates for some numerical approximation schemes. **90k:41024**
Chen, Wen Zhong (*with* Guo, Shun Sheng) The degree of pointwise approximation of the Meyer-König-Zeller operator for functions of bounded variation. (Chinese) **90k:41009**
Chêng, Fu Hua *see* **Bojanić, R., 90h:41021**
Chui, C. K. (*with* He, Tian Xiao; Xu, Li Zhi) On a general class of multivariate linear smoothing operators. **90f:41022**
Ditzian, Z. Best polynomial approximation and Bernstein polynomial approximation on a simplex. **90j:41007**
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Gonska, Heinz H. *see* **Cao, Jia Ding, 90k:41024**
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Kasana, H. S. A note on uniform approximation by linear combinations of modified Bernstein polynomials. **90j:41032**
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(Oskolkov, K. I.) *see* **Sendov, Bl., 90e:41001**
Păltănea, Radu Une classe générale d'opérateurs polynomiaux. [A general class of polynomial operators] **90e:41011**
Popov, Vasil Atanasov *see* **Sendov, Bl., 90e:41001**
Raşa, I. Norm-one projections on some function spaces. **90c:41072**
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Vasil′ev, R. K. (*with* Amiar, Rachida) Sur les théorèmes quantitatifs du type Korovkin. (English summary) [On quantitative theorem of Korovkin type] **90d:41040**
Vértesi, Péter *see* **Erdős, Paul, 90c:41049**
van Wickeren, E. Direct and inverse theorems for Bernstein polynomials in the space of Riemann integrable functions. **90d:41030**
Xu, Li Zhi *see* **Chui, C. K.; et al., 90f:41022**

41A40 Saturation

Erdős, Paul (*with* Vértesi, Péter) On certain saturation problems. **90c:41049**
Gavrilyuk, V. T. Saturation classes of singular integrals in the space L_1. (Russian) **90b:41040**
Müller, Manfred Wolfgang Saturation of a new method of Kantorovič type Meyer-König and Zeller operators. **90i:41035**
Spreng, Karl-Eugen On the monotonicity of saturation orders of saturated matrix methods. **90c:41050**
Vértesi, Péter *see* **Erdős, Paul, 90c:41049**
Zhao, Jing Hui L^p saturation for Stancu-Kantorovich operators. (Chinese. English summary) **90k:41036**

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Fang, You Jian A saturation property concerning a general probabilistic representation of operator semigroups. **90g:47072**
Gavrilyuk, V. T. Saturation classes for linear methods of summation of Fourier series. **90e:42014**
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Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) **90d:42018**
Joó, István On some problems of M. Horváth (saturation theorems for Walsh-Fourier expansions). **90i:42041**
Lenze, Burkhard On one-sided spline approximation operators. **90e:41002**
Li, Ping Iterates of Bernstein polynomials over triangles. **90f:41003**
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Nishishiraho, Toshihiko Saturation of iterations of bounded linear operators. **90j:41064**
Pendina, T. P. On the saturation of algebraic linear positive operators associated with trigonometric kernels. (Russian) (*see* **90m:00015**)
Prestin, Jürgen Trigonometric approximation by Euler means. **90j:42007**
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Timmermans, C. A. Approximation, saturation, and semigroups of operators in Banach spaces. **90k:41047**

41A44 Best constants

Angelos, James (*with* Henry, Myron; Kaufman, Edwin, Jr.; Lenker, Terry) Bounds for extended local Lipschitz constants. **90h:41025**
Fang, Gen Sun The exact constant in a Jackson-type inequality in L_1. (Chinese. English summary) **90j:41040**
Henry, Myron *see* **Angelos, James; et al., 90h:41025**
Kaufman, Edwin, Jr. *see* **Angelos, James; et al., 90h:41025**
Lenker, Terry *see* **Angelos, James; et al., 90h:41025**
Yussef, Kh. On best approximations of functions and on values of widths of classes of functions in L_2. (Russian) **90d:41045**

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Anastassiou, George A. The rate of weak convergence of convex type positive finite measures. **90a:41015**
Chen, Weiyu (*with* Ditzian, Z.) Mixed and directional derivatives. **90h:26023**
Ditzian, Z. *see* **Chen, Weiyu, 90h:26023**
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Fang, Gen Sun On exact constant in Jackson type inequality. **90c:41025**
Khan, Mohammad Kazim (*with* Peters, Michael A.) Lipschitz constants for some approximation operators of a Lipschitz continuous function. **90k:41031**
Lin, Pei-Kee Strongly unique best approximation in uniformly convex Banach spaces. **90b:41045**
Miroshnichenko, V. L. Exact error bounds for the periodic cubic and spline interpolation on the uniform mesh. **90d:41021**
Nürnberger, Günther Strong unicity constants in Chebyshev approximation. **90i:41036**
Păltănea, Radu Improved constant in approximation by Bernstein polynomials. **90k:41014**
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Ye, Mao Dong Some problems for the bivariate C^1-cubic splines. **90c:41024**

41A45 Approximation by arbitrary linear expressions

Filippovskiĭ, V. G. Linear methods for the approximation of functions of the classes $C^\psi_\beta H_\omega$. (Russian) **90c:41051**

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Dunham, Charles B. Linearization of best approximation. **90a:41021**

41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

Aĭnulloev, N. Widths of classes of analytic functions in a unit disk. (Russian) (*see* **90h:00005**)
Belinskiĭ, É. S. Approximation by a "floating" system of exponentials, and estimates for ε-entropy. (Russian) (*see* **90i:00006**)
Bourgain, J. (*with* Gromov, Mikhael L.) Estimates of Bernstein widths of Sobolev spaces. **90g:41034**
Chernyavskaya, N. A. Diameters of the embedding of the weighted space $H_p(\mathscr{J}_+)$ in $L_p(\mathscr{J}_+)$. (Russian) **90c:41052**
DeVore, R. A. (*with* Howard, Ralph; Micchelli, Charles A.) Optimal nonlinear approximation. **90c:41053**
Fang, Gen Sun An estimate of the width of the class W^rH^ω of nonperiodic functions. (Chinese. English summary) **90b:41041**
— One-sided N-widths for a class of periodic functions. **90g:41035**
Galeev, È. M. Kolmogorov widths of classes of periodic functions with several bounded derivatives. (Russian) (*see* **90m:00040**)
Gluskin, E. D. The intersection of a cube with an octahedron is poorly approximated by subspaces of small dimension. (Russian) (*see* **90d:00009**)
Gromov, Mikhael L. *see* **Bourgain, J., 90g:41034**
Heinrich, Stefan On the relation between linear n-widths and approximation numbers. **90g:41036**
Howard, Ralph *see* **DeVore, R. A.; et al., 90c:41053**
Khodulëv, A. B. Some exact values for Kolmogorov widths in finite-dimensional spaces. (Russian. English summary) **90f:41032**
— A remark on Aleksandrov widths of finite-dimensional sets. **90h:41026**
Kushpel′, A. K. μ-widths of sets in a Hilbert space. (Russian) **90d:41046**

— Sharp estimates for the widths of convolution classes. **90c:41054**
— Estimates for the widths of classes of analytic functions. **90j:41041**
— Estimates for widths of convolution classes in the spaces C and L. **90j:41042**
Maiorov, V. E. Trigonometric widths of Sobolev classes. (Russian) (*see* **90d:00046**)
Makovoz, Yuly A simple proof of an inequality in the theory of n-widths. **90h:41027**
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Nguyễn Thị Thiêu Hoa Widths and quadrature formulas on periodic classes of functions that are conjugate to Sobolev classes of functions. **90j:41043**
Ovchintsev, M. P. On the optimal recovery of functions of the class E_p in an annulus. **90k:41037**
Qian, Pei Ling (*with* Shao, Wei) On n-widths in l_p. **90m:41037**
Shao, Wei *see* **Qian, Pei Ling, 90m:41037**
Sun, Yong Sheng Optimal interpolation on a convolution class of functions. **90j:41044**
Temlyakov, V. N. On estimates of ε-entropy and widths of classes of functions with a bounded mixed derivative or difference. **90e:41012**
— Estimates for the asymptotic characteristics of classes of functions with bounded mixed derivative or difference. (Russian) **90g:41037**

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Belinskiĭ, É. S. Approximation of functions of several variables by trigonometric polynomials with given number of harmonics, and estimates of ε-entropy. (Russian summary) **90m:42001**
Bisaliev, E. Zh. (*with* Kusainova, L. K.) Embedding of a weighted space of Sobolev type into a weighted space of differentiable functions with a smaller order. (Russian) (*see* **90h:00003**)
Fang, Gen Sun The exact constant in a Jackson-type inequality in L_1. (Chinese. English summary) **90j:41040**
Farkov, Yu. A. Widths of classes of analytic functions in a finite number of domains. (Russian) (*see* **90h:00005**)
— Widths and ε-entropies of classes of analytic functions with bounded derivatives. (Russian) (*see* **90d:00046**)
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Imambaeva, B. D. (*with* Seksenbaeva, A. K.) Estimates for the widths of embedding of spaces of smooth functions with weight. (Russian) (*see* **90h:00003**)
Khodulëv, A. B. On the calculation of exact values of Kolmogorov widths of finite-dimensional octahedra. **90j:46022**
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Kushpel', A. K. On an estimate for widths of sets in some function spaces. (Russian) **90e:42023**
Mascioni, Vania s-numbers of projections in Banach spaces. **90k:46036**
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Nasyrova, Kh. Diameters of a curve in the space L_2 with weight $1/\pi(x^2+1)$. (Russian) **90f:46050**
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Pisier, Gilles A new approach to several results of V. Milman. **90a:46038**
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Tyuleneva, I. N. Asymptotics of the widths of a class of solutions of differential equations. (Russian) **90d:34025**
Videnskiĭ, V. S. Widths of certain families of linear positive operators. (Russian) (*see* **90m:00015**)

41A50 Best approximation, including Chebyshev systems

Abakumov, Yu. G. A criterion for the continuability of Chebyshev systems and construction of examples of noncontinuable Chebyshev systems. (Russian) (*see* **90h:00005**)
— (*with* Vinogradov, O. M.) Conditions for continuability of Chebyshev systems. (Russian) **90d:41047**
Ainulloev, N. Best approximation of certain classes of differentiable functions in L_2. (Russian) (*see* **90m:00015**)
Berens, H. (*with* Schmid, H. J.) An example of a Chebyshev set. **90d:41048**
Blatt, H.-P. (*with* Lorentz, G. G.) On a theorem of Kadec. **90d:41049**
Brown, Aldric L. Best approximation by continuous n-convex functions. **90d:41050**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Conditional bounds and best L_∞-approximations in probability spaces. **90c:41055**
Davydov, O. V. Asymptotic behavior of best approximations of individual functions of classes W^rH_ω in the metric L_p. **90m:41038**
Deutsch, Frank (*with* Li, Wu; Park, Sung Ho) Characterizations of continuous and Lipschitz continuous metric selections in normed linear spaces. **90h:41028**
Didkovskaya, N. V. Criteria for Chebyshev systems of functions. (Russian) **90m:41039**
Dunham, Charles B. Sums of exponentials with restricted frequencies. **90b:41042**
— Subsets of unicity in uniform approximation. **90h:41029**
— Linearization of best approximation. **90a:41021**
Efrat, Ido Small Chebyshev systems made by products. **90h:41030**
Gao, Xie Pin An explicit solution to an optimal approximation problem. (Chinese) (Not in MR)
Gu, Feng The approximation of Chebyshev solutions by least squares solutions. (Chinese. English summary) **90c:41056**
Haussmann, Werner (*with* Rogge, Lothar) Uniqueness inequality and best harmonic L^1-approximation. **90k:41038**
Huotari, Robert (*with* Legg, David; Townsend, Douglas) The Pólya algorithm on cylindrical sets. **90f:41033**
Kazibekov, T. L. The number of best approximations in a problem of nonlinear approximation. (Russian) **90m:41040**
Kolushov, A. V. Differential properties of the operator of best approximation by rational fractions. **90h:41031**
Korobkova, M. B. Necessary and sufficient conditions for the existence of a basis of the Chebyshev system. (Russian) (*see* **90d:00009**)
Koshcheev, V. A. Chebyshev systems of functions, and vector fields on spheres. **90m:41041**
Kroó, András On the uniqueness of canonical points in the Hobby-Rice theorem. **90j:41045**
Kuz'mina, A. L. Nonnegative polynomials that deviate least from zero in $C[-1,1]$. (Russian) **90k:41039**
Labsker, L. G. Two examples of Chebyshev systems, for which there do not exist polynomials with an arbitrary distribution of zeros. (Russian) (*see* **90h:00005**)
Legg, David *see* **Huotari, Robert; et al., 90f:41033**
Li, Jiang Bo Best simultaneous L_p-approximation. (Chinese. English summary) **90h:41032**
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— Various continuities of metric projections in $C_0(T,X)$. **90g:41038b**
— Lipschitz continuous metric selections in $C_0(T)$. **90k:41040**
— *see also* **Deutsch, Frank; et al., 90h:41028**
Liu, Li Wei Best L_p approximation of Lebesgue-Bochner summable functions. (Chinese. English summary) **90m:41042**
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Markova, L. A. Modulus of continuity and best approximation by constant functions in the space $L_0[0;1]$. (Russian) (*see* **90m:00015**)
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90c:41055**
Novikov, S. I. Best reconstruction from incomplete information of a class of periodic functions in L_2. (Russian) **90d:41051**
Nürnberger, Günther Strong unicity constants in Chebyshev approximation. **90i:41036**
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Pinkus, Allan M. (*with* Strauss, Hans) Best approximation with coefficient constraints. **90d:41052**
— ★ On L^1-approximation. **90j:41046**
Polyakov, O. V. Nonsymmetric approximation of a class by a class in an integral metric. **90f:41034**
Popov, V. Yu. Approximations on a sphere in L_2. **90h:41033**
Ramazanov, A.-R. K. Modulus of change of a function of several variables, and approximation by piecewise-constant functions. (Russian) **90c:41057**
Reemtsen, Rembert A note on the regularization of discrete approximation problems. **90m:41043**
Robertson, A. G. Strongly Chebyshev subspaces of matrices. **90a:41022**
Rogge, Lothar *see* **Haussmann, Werner, 90k:41038**
Schmid, H. J. *see* **Berens, H., 90d:41048**
Shi, Ying Guang The modified L approximation theory. **90m:41044**
— A class of functions having the same best approximation for all L_p norms $(1 \le p \le \infty)$. **90f:41035**
Smirnov, G. S. A remark on the best approximation in the mean of vector-valued functions. **90f:41036**
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Sun, Xingping On a problem in monotone approximation. **90g:41039**
Sun, Yong Sheng An optimal recovery problem for a differential operator on a class of differentiable functions. (Chinese. English summary) **90b:41043**
Swetits, J. J. (*with* Weinstein, S. E.) Construction of a best monotone approximation in l_p for $1 < p < \infty$. **90m:41045**
— (*with* Weinstein, S. E.; Xu, Yue Sheng) On the characterization and computation of best monotone approximation in $L_p[0,1]$ for $1 \le p < \infty$. **90j:41047**
Tazabekov, S. Embedding theorems and inequalities of various metrics for best approximations in a system of Haar type. (Russian) (*see* **90h:00003**)
Temlyakov, V. N. Best bilinear approximation and connected questions. (*see* **90a:41001**)
Townsend, Douglas *see* **Huotari, Robert; et al., 90f:41033**
Vinogradov, O. M. Continuability of a Chebyshev system. (Russian) (*see* **90h:00005**)
— *see also* **Abakumov, Yu. G., 90d:41047**
Weinstein, S. E. *see* **Swetits, J. J.; et al., 90j:41047** *and* **90m:41045**
Wójcik, Adam P. On a distribution of zeros of polynomials of the best uniform approximation to C^k functions. (Polish summary) **90j:41048**
Xu, Yue Sheng *see* **Swetits, J. J.; et al., 90j:41047**
Zhou, Song Ping An extension of a theorem of Hasson. (Chinese. English summary) **90j:41049**
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Angelos, James (*with* Henry, Myron; Kaufman, Edwin, Jr.; Lenker, Terry) Bounds for extended local Lipschitz constants. **90h:41025**
Babaev, M.-B. A. Best approximation by bilinear forms. **90i:41015**
Babenko, V. F. Sequences of polynomials of best L_1-approximation. (Russian) **90i:41016**
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— (*with* Conn, Andrew R.; Li, Yuying) Erratum: "Primal methods are better than dual methods for solving overdetermined linear systems in the l_∞ sense?". **90h:65112b**
Beer, Gerald On Mosco convergence of convex sets. **90a:46026**
Berens, H. (*with* Finzel, M.) A continuous selection of the metric projection in matrix spaces. **90i:41040**
Blatt, H.-P. (*with* Saff, E. B.; Totik, V.) The distribution of extreme points in best complex polynomial approximation. **90h:30089**
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Chiacchio, Ary O. *see* **Prolla, João B., 90h:41037**
Conn, Andrew R. *see* **Bartels, Richard; et al., 90h:65112a** *and* **90h:65112b**
Deeb, W. (*with* Khalil, Roshdi) Best approximation in $L^p(I,X)$, $0 < p < 1$. **90i:41042**
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Furukawa, Nagata (*with* Yoshinaga, Yuji) Higher-order variational sets, variational derivatives and higher-order necessary conditions in abstract mathematical programming. **90b:49038**
Gönczi, István (*with* Kálovics, Ferenc) An iterative formula for special Chebyshev approximations. **90a:65040**
Gu, Feng L^p approximation with weight functions. (Chinese. English summary) **90f:65029**
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Jongen, H. T. (*with* Zwier, G.) On regular minimax optimization. **90k:90179**
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Khavinson, Dmitry Duality and uniform approximation by solutions of elliptic equations. **90i:35082**
Khristov, Vladimir Kh. (*with* Ivanov, Kamen Ǵ.) Operators for onesided approximation of functions. **90k:41027**
Kovtunets, V. V. An algorithm for the construction of a polynomial of best approximation of a complex-valued function on a compact set. (Russian) **90d:65038**
Krivoruchko, G. F. (*with* Popov, B. A.) An algorithm for the best Chebyshev approximation of a tabular function of two variables. (Russian) **90i:65036**
Lenker, Terry *see* **Angelos, James; et al., 90h:41025**
Li, Chong Characteristics of nonlinear simultaneous Chebyshev approximation. (Chinese. English summary) **90a:41017**
Li, Wu Strong uniqueness and Lipschitz continuity of metric projections: a generalization of the classical Haar theory. **90e:41013**
— Continuous metric selection and multivariate approximation. **90j:41063**
Li, Yuying *see* **Bartels, Richard; et al., 90h:65112a** *and* **90h:65112b**
Ma, He Yuan Polynomials of least deviation from zero on rectangles and triangles. (Chinese. English summary) **90j:41010**
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Markova, L. A. Best approximation by second-order algebraic polynomials in the function space $L_0[0;1]$. (Russian) **90d:41012**
Meinardus, Günter On the Gauss transform of polynomial spline spaces. **90m:41023**
Mena-Jurado, J. F. (*with* Payá-Albert, Rafael; Rodríguez-Palacios, Ángel) Absolute subspaces of Banach spaces. **90c:46024**
Mustăţa, Costică M-ideals in metric spaces. **90b:54019**
Nürnberger, Günther ★ Approximation by spline functions. **90j:41025**
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Potapov, M. K. Jackson theorems for generalized moduli of smoothness. (Russian) **90m:41016**
Precup, Radu Fonctions convexes et fonctionnelles de forme simple. [Convex functions, and functionals of simple form] **90e:26020**
Pritula, Ya. G. (*with* Yatsimīrs′kiĭ, M. M.) Estimates for approximations of B^2 almost periodic functions. (Ukrainian. Russian summary) **90j:42008**
Prolla, João B. (*with* Chiacchio, Ary O.) Proximinality of certain subspaces of $C_b(S;E)$. **90h:41037**
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Saff, E. B. *see* **Blatt, H.-P.; et al., 90h:30089**
Sahab, Salem M. A. Bounded measurable simultaneous monotone approximation. **90k:41026**
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Ubhaya, Vasant A. L_p approximation by quasi-convex and convex functions. **90h:41022**
Wang, Yu Wen (*with* Chen, Shu Tao) Applications of the geometric theory of Banach spaces in optimization theory. (Chinese. English summary) **90d:90078**
Xu, Shu Sheng Comparison between the best approximations by lacunary and ordinary polynomials. **90i:41018**
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Yu, Xiang Ming (*with* Ma, Yong Pei) Generalized monotone approximation in L_p space. **90d:41014**
Zalik, R. A. Embedding a function into a Haar space. **90a:41035**
— (*with* Zwick, D.) On extending the domain of definition of Čebyšev and weak Čebyšev systems. **90c:41007**
Zhou, Song Ping On the accurate order of approximation of some classes of functions. **90j:41014**
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Zwick, D. Some aspects of best n-convex approximation. **90b:41033**
— *see also* **Zalik, R. A., 90c:41007**
Zwier, G. *see* **Jongen, H. T., 90k:90179**

41A52 Uniqueness of best approximation

Khvostov, A. P. A criterion for the uniqueness of a polynomial of best approximation of a multivalued function. (Russian) **90m:41046**
Lenze, Burkhard Uniqueness in best one-sided L_1-approximation by algebraic polynomials on unbounded intervals. **90c:41058**
Li, Wu Strong uniqueness and Lipschitz continuity of metric projections: a generalization of the classical Haar theory. **90e:41013**
Lin, Pei-Kee Strongly unique best approximation in uniformly convex Banach spaces. **90b:41045**
Pinkus, Allan M. (*with* Strauss, Hans) One-sided L^1-approximation to differentiable functions. **90a:41023**
Shi, Ying Guang Uniqueness of best L approximation for continuous functions. **90g:41040**
Smarzewski, Ryszard Strong uniqueness of best approximations in an abstract L_1 space. **90b:41046**
Strauss, Hans *see* **Pinkus, Allan M., 90a:41023**

Items with secondary classifications in 41A52

Brosowski, Bruno (*with* Guerreiro, Claudia) On the uniqueness and strong uniqueness of best rational Chebyshev-approximation. **90c:41027**
Dunham, Charles B. Uniqueness of representation of rational functions. **90e:41009**
Grothmann, R. Local uniqueness in nonuniqueness spaces. **90d:41055**
Guerreiro, Claudia *see* **Brosowski, Bruno, 90c:41027**
Haussmann, Werner (*with* Rogge, Lothar) Uniqueness inequality and best harmonic L^1-approximation. **90k:41038**
Khadzhiĭski, Vanya On the best L_p-approximation on the real line by entire functions of exponential type. (Bulgarian. English and Russian summaries) **90b:30046**
Krivoruchko, G. F. (*with* Popov, B. A.) An algorithm for the best Chebyshev approximation of a tabular function of two variables. (Russian) **90i:65036**
Kroó, András On the uniqueness of canonical points in the Hobby-Rice theorem. **90j:41045**
Li, Wu Characterization of continuous selections for metric projections in $C(X)$. **90f:41043**
Pinkus, Allan M. ★ On L^1-approximation. **90j:41046**
Popov, B. A. *see* **Krivoruchko, G. F., 90i:65036**
Rogge, Lothar *see* **Haussmann, Werner, 90k:41038**
Romanyuk, A. S. An inequality of Bohr-Favard type, and the best m-term approximation of the classes $L^{\psi}_{\beta,p}$ in the space L_q. (Russian) **90f:41010**
Zhivkov, N. V. A characterization of reflexive spaces by means of continuous approximate selections for metric projections. **90f:46020**
Zwick, D. Some aspects of best n-convex approximation. **90b:41033**

41A55 Approximate quadratures

Acu, D. V-optimal quadrature formulas with multiple nodes. **90c:41059**
— V-optimal formulas of quadrature with weight function of the Laguerre type. **90g:41041**
Aliev, Rafiu M. Best quadrature formulas for some classes of differentiable functions. (Not in MR)
Babenko, V. F. Exact inequalities for rearrangements of periodic monosplines, and best quadrature formulas. (Russian) **90j:41050**
(Banerjee, Uday) *see* **Xu, Li Zhi, 90g:41043**
Barrar, R. B. (*with* Boyanov, Borislav D.; Loeb, H. L.) Generalized polynomials of minimal norm. **90b:41047**
Boyanov, Borislav D. (*with* Huang, Da Ren) On the optimal quadrature formulas in W^r_q of quasi-Hermitian type. **90g:41042**
— *see also* **Barrar, R. B.; et al., 90b:41047**
Brezinski, Claude Error estimate in Padé approximation. **90b:41048**
Büttgenbach, B. (*with* Nessel, R. J.; van Wickeren, E.) Sharp estimates in terms of moduli of smoothness for compound cubature rules. **90j:41051**
Caliò, F. (*with* Gotusso, L.; Marchetti, E.) Constructions of particular quadrature formulas of maximum degree. (Italian. English summary) **90a:41024**
Casasús, L. *see* **González-Concepción, C.; et al., 90f:41037**
Du, Jin Yuan Quadrature formulas for singular integrals with Hilbert kernel. **90b:41049**
Dunaĭchuk, E. E. An upper bound for errors of quadrature formulas of Gauss type that correspond to certain weight functions on the classes H_ω. (Russian) **90i:41037**
— *see also* **Motornyĭ, V. P., 90j:41055**
Evtushenko, A. A. *see* **Grilīts′kiĭ, D. V.; et al., 90h:41034**
Fujiyoshi, Seiji *see* **Matsuda, Takashi; et al., 90j:41054**
Gabdulkhaev, B. G. (*with* Sharipov, R. N.) Optimization of quadrature formulas for singular Cauchy and Hadamard integrals. (Russian) **90m:41047**
Gatteschi, Luigi Uniform approximation of Christoffel numbers for Jacobi weight. **90j:41052**
Gegel′, G. N. (*with* Kosyuk, S. D.) Approximate calculation of improper integrals of special form. (Russian) (*see* **90d:00015**)
González-Concepción, C. (*with* González-Vera, P.; Casasús, L.) On the convergence of certain quadrature formulas defined on unbounded intervals. **90f:41037**
González-Vera, P. *see* **González-Concepción, C.; et al., 90f:41037**
Gotusso, L. *see* **Caliò, F.; et al., 90a:41024**
Grilīts′kiĭ, D. V. (*with* Evtushenko, A. A.; Prikarpat·skiĭ, A. K.) An estimate for a quadrature formula on a segment in a class of continuous functions and a theorem of Banach-Steinhaus type. (Russian) **90h:41034**
Huang, Da Ren *see* **Boyanov, Borislav D., 90g:41042**
Köhler, Peter On Sard's quadrature formulas of order two. **90m:41048**
Kosyuk, S. D. *see* **Gegel′, G. N., (90d:00015)**
(Lardy, L. J.) *see* **Xu, Li Zhi, 90g:41043**
Loeb, H. L. *see* **Barrar, R. B.; et al., 90b:41047**
Lubinsky, D. S. *see* **Rabinowitz, Philip, 90b:41050**
Lushpaĭ, N. E. An error estimate for quadrature formulas with weight for classes of differentiable periodic functions. (Russian) **90j:41053**
(Lutoborski, A.) *see* **Xu, Li Zhi, 90g:41043**
Marchetti, E. *see* **Caliò, F.; et al., 90a:41024**
Matsuda, Takashi (*with* Fujiyoshi, Seiji; Yanagiwara, Hiroki) A Chebyshev-type quadrature for 8 and 10 through 17 nodes. **90j:41054**
Motornyĭ, V. P. (*with* Dunaĭchuk, E. E.) Approximate calculation of integrals of nonperiodic functions. (Russian) **90j:41055**
Myrzanov, Zh. E. Reconstruction of an integral from power moments of the integrand. (Russian) **90a:41025**
Nessel, R. J. *see* **Büttgenbach, B.; et al., 90j:41051**
Nikolov, Geno P. A comparison theorem in the theory of quadrature formulas. **90c:41060**

Ossicini, A. (*with* Rosati, F.) Calculation of an integral. (Italian. English summary) **90c:41061**
Polovinkin, V. I. Asymptotically best weighted cubature formulas. **90f:41038**
Prikarpat·skiĭ, A. K. *see* **Grilīts′kiĭ, D. V.; et al., 90h:41034**
Rabinowitz, Philip (*with* Lubinsky, D. S.) Noninterpolatory integration rules for Cauchy principal value integrals. **90b:41050**
Rahman, Q. I. (*with* Schmeisser, G.) An analogue of Turán's quadrature formula. **90i:41038**
Rosati, F. *see* **Ossicini, A., 90c:41061**
Schmeisser, G. *see* **Rahman, Q. I., 90i:41038**
Schmid, H. J. A note on positive quadrature rules. **90k:41041**
Sharipov, R. N. *see* **Gabdulkhaev, B. G., 90m:41047**
Sottas, G. On the positivity of ultraspherical type quadrature formulas with Jacobi abscissas. **90i:41039**
Temirgaliev, N. Quadrature formulas with "algebraic" nets. (Russian. Kazakh summary) **90j:41056**
van Wickeren, E. *see* **Büttgenbach, B.; et al., 90j:41051**
Xu, Li Zhi A remark on a paper of U. Banerjee, L. J. Lardy and A. Lutoborski: "Asymptotic expansions of integrals of certain rapidly oscillating functions" [Math. Comp. **49** (1987), no. 179, 243–249; MR 88e:41063]. **90g:41043**
Yanagiwara, Hiroki *see* **Matsuda, Takashi; et al., 90j:41054**
Zhensykbaev, A. A. On monosplines with nonnegative coefficients. **90d:41053**

Items with secondary classifications in 41A55

Andersson, J.-E. Rational approximation to functions like x^{α} in integral norms. (Russian summary) **90a:30103**
Anwar, M. N. (*with* El Tarazi, M. N.) Direct cubic spline with application to quadrature. **90d:65029**
Breitung, K. (*with* Hohenbichler, M.) Asymptotic approximations for multivariate integrals with an application to multinormal probabilities. **90g:41044**
Butler, James Wilford A proposed new approach to the expansion of mathematical functions. **90f:65026**
Cools, Ronald *see* **Verlinden, P.; et al., 90f:65040**
Delvos, Franz-Jürgen (*with* Nienhaus, H.) Even alternating spline quadrature formulas. **90b:41018**
Deutchman, P. A. *see* **Khin Maung Maung; et al., 90e:81271**
Dryanov, D. P. (*with* Rahman, Q. I.; Schmeisser, G.) Equivalence theorems for quadrature on the real line. **90m:65053**
Dyn, N. (*with* Jetter, Kurt) Existence of Gaussian quadrature formulas for Birkhoff type data. **90g:65025**
El Tarazi, M. N. *see* **Anwar, M. N., 90d:65029**
Ghelardoni, Paolo A generalization of Gauss-Jacobi quadrature formulas. (Italian. English summary) **90e:65024**
Gienger, Gottlob On convolution quadratures and their applications to Fredholm integral equations of the second kind. **90c:65160**
Grozev, Georgi R. Comparison theorems for L-monosplines of minimal norm. **90m:41021**
Gustafsson, Björn Singular and special points on quadrature domains from an algebraic geometric point of view. **90i:30066**
Haegemans, Ann *see* **Verlinden, P.; et al., 90f:65040**
Hohenbichler, M. *see* **Breitung, K., 90g:41044**
Jetter, Kurt *see* **Dyn, N., 90g:65025**
Johnson, Diane L. Gaussian quadrature formulae with fixed nodes. **90b:65035**
Jones, William B. (*with* Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. **90e:42027**
Kamińska, A. (*with* Musielak, J.) On approximation by Riemann sums in generalized Orlicz spaces. **90i:46056**
Khamaev, E. A. *see* **Khamaeva, N. A., 90b:65036**
Khamaeva, N. A. (*with* Khamaev, E. A.) An estimate for the norm of an error functional of a cubature formula in the space $L_p^{\mu}(E_n)$. (Russian) **90b:65036**
Khin Maung Maung (*with* Deutchman, P. A.; Royalty, W. D.) Integrals involving the three-parameter Fermi function. (French summary) **90e:81271**
Kovačević, Milan A. (*with* Milovanović, Gradimir V.) Spline approximation on the half-line. (Slovenian summary) **90j:41020**
Luik, Eberhard Anmerkungen zur bilinearen Quadratur. [Remarks on bilinear quadrature] **90a:65048**
Mason, J. C. The L_p minimality and near-minimality of orthogonal polynomial approximation and integration methods. **90c:33023**
Mastroianni, Giuseppe On the convergence of product formulas for the evaluation of certain two-dimensional Cauchy principal value integrals. **90a:65049**
Mevissen, H. (*with* Nessel, R. J.; van Wickeren, E.) On the sharpness of error bounds for compound quadrature rules in the space of Riemann integrable functions. **90d:65047**
Milovanović, Gradimir V. *see* **Kovačević, Milan A., 90j:41020**
Muravskiĭ, G. B. A quadrature formula for integrals of rapidly oscillating and sharply changing functions. **90d:65048**
Musielak, J. *see* **Kamińska, A., 90i:46056**
Nessel, R. J. *see* **Mevissen, H.; et al., 90d:65047**
Nguyễn Thị Thiêu Hoa Some extremal problems on classes of functions defined by linear differential operators. (Russian) **90m:41010**
— Widths and quadrature formulas on periodic classes of functions that are conjugate to Sobolev classes of functions. **90j:41043**
— The Rolle theorem for some differential operators, and applications. **90h:47089**
Nienhaus, H. *see* **Delvos, Franz-Jürgen, 90b:41018**
Njåstad, Olav *see* **Jones, William B.; et al., 90e:42027**
Peherstorfer, Franz Linear combinations of orthogonal polynomials generating positive quadrature formulas. **90j:65043**
Rahman, Q. I. *see* **Dryanov, D. P.; et al., 90m:65053**
Rasputin, G. G. H-bases of polynomial ideals, and cubature formulas. (Russian) **90j:65044**
Reztsov, A. V. Optimal cubature formulas on classes of differentiable functions. (Russian) **90i:65047**
Rivlin, T. J. Gauss quadrature for analytic functions. **90e:65031**
Roose, Dirk *see* **Verlinden, P.; et al., 90f:65040**
Royalty, W. D. *see* **Khin Maung Maung; et al., 90e:81271**
Schmeisser, G. *see* **Dryanov, D. P.; et al., 90m:65053**
Shamsiev, È. A. Some cubature formulas that are invariant with respect to subgroups of a hyperoctahedron group. (Russian) **90d:65051**
Thron, W. J. *see* **Jones, William B.; et al., 90e:42027**
Verlinden, P. (*with* Cools, Ronald; Roose, Dirk; Haegemans, Ann) The construction of cubature formulae for a family of integrals: a bifurcation problem. (German summary) **90f:65040**
Vértesi, Péter Remarks on convergence of Gaussian quadrature for singular integrals. **90m:65056**
van Wickeren, E. *see* **Mevissen, H.; et al., 90d:65047**

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

van den Berg, Imme Peter Sur le calcul d'erreur des approximations de Taylor. [Error computation for Taylor approximations] (*see* **90j:03116**)
Bezkrovnyĭ, Yu. D. Faber polynomials and series on matrices and operators. (Russian) (*see* **90m:00015**)
Oligov, B. Kh. Properties of Faber operators and the representation of functions by series in Faber polynomials. (Russian) (*see* **90m:00015**)
da Silva, Manuel R. Approximate expansions of differentiable functions in polynomial series. **90c:41062**
Ziętak, K. Evaluation of coefficients of a double Chebyshev series of the function $g(p(x+y))$. **90c:41063**

Items with secondary classifications in 41A58

Butzer, P. L. (*with* Hauss, M.; Schmidt, Michael) Factorial functions and Stirling numbers of fractional orders. **90m:33016**
Dzhrbashyan, M. M. (*with* Grigorian, N. V.) A new generalization of the classical theorem of G. Szegő. **90b:30003**
Gautschi, Walter On the zeros of polynomials orthogonal on the semicircle. **90f:30006**
Golightly, George O. Coefficients in sine series expansions of special entire functions. **90a:30077**
Grigorian, N. V. *see* **Dzhrbashyan, M. M., 90b:30003**
Hauss, M. *see* **Butzer, P. L.; et al., 90m:33016**
Israfilov, D. M. Approximation properties of generalized Faber series in an integral metric. (Russian. English and Azerbaijani summaries) **90a:30108**
Mel′nik, Yu. I. Direct theorems for the approximation of functions that are regular in convex polygons by exponential polynomials in an integral metric. **90e:30040**
Orekhov, B. I. Expansion of analytic functions in Bessel polynomials. (Russian) (*see* **90d:00046**)
Schmidt, Michael *see* **Butzer, P. L.; et al., 90m:33016**
Skrzypczyk, Jerzy Second-order linearization method for nonlinear dynamic systems described by Volterra integral equations. (French, Russian and Polish summaries) **90a:45004**
Stachowiak-Gniłka, Danuta Representation of functions of the class $\varphi(L)$ by the Faber-Schauder series on $\langle 0,1\rangle^2$. **90b:42026**

41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

Borovikov, V. A. The stationary phase method for a saddle point near the boundary of a domain of integration. **90c:41064**
Breitung, K. (*with* Hohenbichler, M.) Asymptotic approximations for multivariate integrals with an application to multinormal probabilities. **90g:41044**
Chebotarëv, A. M. Asymptotics of nonclassical rapidly oscillating integrals. **90k:41042**
Ciarkowski, Adam Uniform asymptotic expansion of an integral with a saddle point, a pole and a branch point. **90j:41057**
Cicala, Placido Comments on recent developments of asymptotics. (Italian summary) **90a:41026**
Dostál, Miloš (*with* Gaveau, Bernard) Comportement asymptotique d'intégrales de Fourier-Laplace avec points critiques dégénérés de la phase de type 1 ou 2. (English summary) [Asymptotic behavior of Fourier-Laplace integrals with degenerate critical points of the phase of type 1 or 2] **90a:41027**
— (*with* Gaveau, Bernard) The stationary phase method for certain degenerate critical points. I. **90j:41058**
Fedoryuk, M. V. The stationary phase method: focusing in a line. (Russian) **90b:41051**
Gaveau, Bernard *see* **Dostál, Miloš, 90a:41027** *and* **90j:41058**
Geluk, J. L. On the asymptotic behaviour of an exponential integral. **90c:41065**
Goodman, T. N. T. (*with* Lee, Seng Luan; Sharma, Ambikeshwar) Asymptotic formula for the Bernstein-Schoenberg operator. **90g:41045**
Guermond, Jean-Luc Une nouvelle approche des développements asymptotiques d'intégrales. (English summary) [A new approach to asymptotic expansions of integrals] **90a:41028**
Hohenbichler, M. *see* **Breitung, K., 90g:41044**
Hoischen, Lothar Asymptotische Approximation stetiger Funktionen durch Funktionenreihen. [Asymptotic approximation of continuous functions by function series] **90c:41066**
Kaminski, David Asymptotic expansion of the Pearcey integral near the caustic. **90f:41039**
Lee, Seng Luan *see* **Goodman, T. N. T.; et al., 90g:41045**
Lubinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. **90e:41014**
McClure, J. P. (*with* Wong, Roderick) Asymptotic expansion of a double integral with a curve of stationary points. **90b:41052**
Petras, K. On norms of Lewanowicz operators. **90k:41043**
Riedel, R. Asymptotische Entwicklung der Restsummen von Potenzreihen. [Asymptotic expansion of the remainder sums of power series] **90j:41059**

Riekstiņš, E. ★ Асимптотика некоторых обратных и неявных функций. (Russian) [Asymptotics of some inverse and implicit functions] **90g:41046**
Schmutz, Eric Asymptotic expansions for the coefficients of $e^{P(z)}$. **90j:41060**
Sharma, Ambikeshwar *see* **Goodman, T. N. T.; et al., 90g:41045**
Temme, N. M. Asymptotic expansion of a special integral. **90f:41040**
Van Assche, Walter Orthogonal polynomials: bounded versus unbounded spectrum. **90g:41047**
Wong, Roderick ★ Asymptotic approximations of integrals. **90j:41061**
— *see also* **McClure, J. P., 90b:41052**
Yarakhmedov, G. A. Generalized asymptotic curves. (Russian) **90c:41067**

Items with secondary classifications in 41A60

Aparicio Bernardo, Emiliano On the asymptotic structure of the polynomials of minimal Diophantic deviation from zero. **90b:41010**
Badkov, V. M. Uniform asymptotic representations of orthogonal polynomials and their derivatives in the case of a weight with singularities. (Russian) (*see* **90i:00006**)
Bak, Jong-Guk (*with* McMichael, David; Vance, James; Wainger, S.) Fourier transforms of surface area measure on convex surfaces in $\mathbf{R}^3$. **90j:42040**
(Banerjee, Uday) *see* **Xu, Li Zhi, 90g:41043**
Baratella, Paola (*with* Gatteschi, Luigi) The bounds for the error term of an asymptotic approximation of Jacobi polynomials. **90e:33028**
Berg, Lothar On Danieljan's class of distribution functions. **90k:44001**
Ciarkowski, Adam Uniform and quasi-uniform asymptotic expansions of incomplete diffraction integrals. **90d:78009**
Davies, I. M. (*with* Truman, A.) Corrigendum: "Laplace asymptotic expansions of conditional Wiener integrals and generalised Mehler kernel formulae for Hamiltonians on $L^2(\mathbf{R}^n)$" [J. Phys. A **17** (1984), no. 14, 2773–2789; MR 86k:81058]. **90c:81056**
Davydov, O. V. Asymptotic behavior of best approximations of individual functions of classes W^rH_ω in the metric L_p. **90m:41038**
Dubeau, François (*with* Savoie, Jean) Développements asymptotiques de fonctions splines avec partage uniforme de la droite réelle. (English summary) [Asymptotic expansions of spline functions with uniform partition of the real line] **90d:41017**
Èĭderman, V. Ya. An exceptional set in asymptotic estimates of subharmonic functions. **90d:31001**
El-Sharkawy, S. A. On the generating functions for some special functions and related topics. (Arabic summary) **90k:33020**
Flajolet, Philippe (*with* Odlyzko, Andrew M.) Singularity analysis of generating functions. **90m:05012**
Gao, Jian The asymptotic expansions of quintic lacunary interpolation splines. (Chinese. English summary) **90c:65022**
Gatteschi, Luigi *see* **Baratella, Paola, 90e:33028**
Geluk, J. L. (*with* Siddiqi, R. N.) On the asymptotic behaviour of a class of trigonometric series. **90m:42006**
Gusynin, V. P. New algorithm for computing the coefficients in the heat kernel expansion. **90k:58215**
Hernández Herrera, René (*with* López Lagomasino, Guillermo) Relative asymptotics of orthogonal polynomials with respect to varying measures. II. **90j:42057**
Ikromov, I. A. Invariant estimates for oscillatory integrals. (Russian) **90j:58010**
Karpushkin, V. N. Refined uniform estimates for oscillatory integrals and areas. **90b:58261**
— Uniform estimates for some oscillatory integrals. **90i:58014**
Knuth, Donald E. (*with* Wilf, Herbert S.) A short proof of Darboux's lemma. **90i:30065**
Korenkov, N. E. Asymptotic properties of Weierstrass sigma functions and Jacobi theta functions. **90h:33030**
(Lardy, L. J.) *see* **Xu, Li Zhi, 90g:41043**
López Lagomasino, Guillermo (*with* Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. **90d:41028**
— Asymptotics of polynomials orthogonal with respect to varying measures. **90h:42036**
— *see also* **Hernández Herrera, René, 90j:42057**
Lubinsky, D. S. (*with* Saff, E. B.) Sufficient conditions for asymptotics associated with weighted extremal problems on **R**. **90h:42037**
(Lutoborski, A.) *see* **Xu, Li Zhi, 90g:41043**
Mao, Ze Chun *see* **Sun, Jun Yi, 90c:41022**
Marenich, A. S. Construction of asymptotic expansions of solutions to functional equations and to systems of such by the method of Lie series. (Russian) (*see* **90i:00001**)
McMichael, David *see* **Bak, Jong-Guk; et al., 90j:42040**
Meyer, R. E. A simple explanation of the Stokes phenomenon. **90f:34097**
Odlyzko, Andrew M. *see* **Flajolet, Philippe, 90m:05012**
Omey, Edward (*with* Willekens, E.) Abelian and Tauberian theorems for the Laplace transform of functions in several variables. **90j:44003**
Oughstun, Kurt Edmund (*with* Sherman, George C.) Uniform asymptotic description of electromagnetic pulse propagation in a linear dispersive medium with absorption (the Lorentz medium). **90h:78014**
Rakhmanov, E. A. *see* **López Lagomasino, Guillermo, 90d:41028**
Rozovskiĭ, L. V. Asymptotic expansion of the Fourier-Stieltjes transform of finite measure in some neighborhood of zero. **90b:42028**
Saff, E. B. *see* **Lubinsky, D. S., 90h:42037**
Savoie, Jean *see* **Dubeau, François, 90d:41017**
Sherman, George C. *see* **Oughstun, Kurt Edmund, 90h:78014**
Siddiqi, R. N. *see* **Geluk, J. L., 90m:42006**
Stepanets, A. I. Fourier sums: new results and unsolved problems. **90c:42008**
— Simultaneous approximation of functions and their (ψ,β)-derivatives by Fourier sums. **90k:42011**
Sun, Jun Yi (*with* Mao, Ze Chun) Asymptotic expansion of the remainder term for type I interpolation by cubic splines with nonequidistant nodes. (Chinese. English summary) **90c:41022**
Sweeting, Trevor J. Recent results on asymptotic expansions in extreme value theory. **90k:60048**
Truman, A. *see* **Davies, I. M., 90c:81056**
Ullman, Joseph L. Orthogonal polynomials for general measures. **90g:42050**
Vance, James *see* **Bak, Jong-Guk; et al., 90j:42040**
Wainger, S. *see* **Bak, Jong-Guk; et al., 90j:42040**
Widom, Harold On Wiener-Hopf determinants. **90m:47044**
Wilf, Herbert S. *see* **Knuth, Donald E., 90i:30065**
Willekens, E. *see* **Omey, Edward, 90j:44003**
Xu, Li Zhi A remark on a paper of U. Banerjee, L. J. Lardy and A. Lutoborski: "Asymptotic expansions of integrals of certain rapidly oscillating functions" [Math. Comp. **49** (1987), no. 179, 243–249; MR 88e:41063]. **90g:41043**

41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)

Temlyakov, V. N. Bilinear approximation and applications. (Russian) **90h:41035**

Items with secondary classifications in 41A63

Aleksandrov, Liudmil G. (*with* Popov, Vasil Atanasov) One-sided trigonometrical approximation of periodic multivariate functions. **90e:42001**
Bazelkov, M. S. Approximation of functions of several variables by the polynomials of S. N. Bernstein. (Russian) **90f:41002**
Blaga, Petru On a bivariate integral spline operator. (Romanian summary) **90c:41013**
Buhmann, M. D. Cardinal interpolation with radial basis functions: an integral transform approach. **90m:41004**
Butzer, P. L. (*with* Hinsen, G.) Two-dimensional nonuniform sampling expansions—an iterative approach. I. Theory of two-dimensional bandlimited signals. **90j:41002**
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Deutsch, Frank (*with* Li, Wu; Park, Sung Ho) Characterizations of continuous and Lipschitz continuous metric selections in normed linear spaces. **90h:41028**
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– (*with* Kaashoek, M. A.) Regular rational matrix functions with prescribed pole and zero structure. **90m:47004**

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– (*with* He, Li^2) Generalized convex sets in normed linear spaces. (Chinese. English summary) **90j:90150**

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Mena-Jurado, J. F. (*with* Payá-Albert, Rafael; Rodríguez-Palacios, Ángel) Absolute subspaces of Banach spaces. **90c:46024**

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Mihail, Mircea Sur la convergence des suites de projecteurs spline. [On the convergence of sequences of spline projectors] **90g:41015**

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Nawrocki, M. On weak approximation and convexification in weighted spaces of vector-valued continuous functions. **90d:46054**

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Scull, S. C. Bézier curves on groups. **90k:65058**

Shaked, U. The explicit structure of inner matrices and its application in H^∞-optimization. (Not in MR)

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41A80 Remainders in approximation formulas

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Rivlin, T. J. Gauss quadrature for analytic functions. **90e:65031**

Savoie, Jean *see* **Dubeau, François, 90d:41017**

Sun, Jun Yi (*with* Mao, Ze Chun) Asymptotic expansion of the remainder term for type I interpolation by cubic splines with nonequidistant nodes. (Chinese. English summary) **90c:41022**

Telyakovskiĭ, S. A. Approximation by Fourier sums of functions of high smoothness. **90h:42004**

41A99 Miscellaneous topics

Coman, Gh. (*with* Gânscă, Ioan; Ţâmbulea, Leon) Some practical application of blending interpolation. (*see* **90m:41003**)

DeVore, R. A. A note on adaptive approximation. **90a:41036**

Gânscă, Ioan *see* **Coman, Gh.; et al., (90m:41003)**

Ivanov, Kamen G. A characterization of weighted Peetre K-functionals. **90h:41038**

Korneĭchuk, N. P. Approximation and optimal coding of smooth plane curves. **90k:41048**

Litvin, O. N. Reconstruction of functions from traces of their normal derivatives on the line in $\mathbf{R}^2$ with preservation of the class $C^r(\mathbf{R}^2)$. **90g:41057**

Namasivayam, S. (*with* Ortiz, E. L.) Some remarks on the structure of the error of tau method approximations. (*see* **90d:00045**)

Ortiz, E. L. *see* **Namasivayam, S., (90d:00045)**

Ţâmbulea, Leon *see* **Coman, Gh.; et al., (90m:41003)**

Zalik, R. A. Integral representation and embedding of weak Markov systems. **90i:41047**

Items with secondary classifications in 41A99

Borgogno, Maria On an approximation method for a class of parametric Lagrange problems. (Italian. English summary) **90e:49024**

Córdova Yēvenes, Antonio (*with* Ruscheweyh, Stephan) On maximal ranges of polynomial spaces in the unit disk. **90h:30013**

Kolushov, A. V. Differential properties of the operator of best approximation by rational fractions. **90h:41031**

Prasad, Ram Sundar (*with* Vishwakarma, Braj Kumar) Least square approximation of the Bessel's function. **90i:33015**

Ruscheweyh, Stephan *see* **Córdova Yēvenes, Antonio, 90h:30013**

Stepanenko, P. T. *see* **Vakarchuk, B. S., 90i:65029**

Vakarchuk, B. S. (*with* Stepanenko, P. T.) On a geometric method for reconstructing surfaces by means of a one-parameter family of arcs of circles. (Russian) **90i:65029**

Vishwakarma, Braj Kumar *see* **Prasad, Ram Sundar, 90i:33015**

42–XX Fourier analysis

42–01 Elementary exposition; textbooks

Breitenberger, Ernst ★ Probability, convolutions, and distributions. **90k:42001**
Körner, T. W. ★ Fourier analysis. **90j:42001**
Walker, James Stephan ★ Fourier analysis. **90b:42001**
Zaanen, Adriaan C. ★ Continuity, integration and Fourier theory. **90b:42002**

42–02 Advanced exposition (research surveys, monographs, etc.)

(Boas, Ralph P.) *see* **Kashin, B. S., 90g:42001**
Chandrasekharan, Komaravolu ★ Classical Fourier transforms. **90c:42001**
Kashin, B. S. (*with* Saakyan, A. A.) ★ Orthogonal series. **90g:42001**
Saakyan, A. A. *see* **Kashin, B. S., 90g:42001**
(Silver, Ben) *see* **Kashin, B. S., 90g:42001**
Weaver, H. Joseph ★ Theory of discrete and continuous Fourier analysis. **90c:42002**

Items with secondary classifications in 42–02

Bochkarev, S. V. Bases in function spaces and the Franklin system. (Russian) **90h:42039**
(Kahane, Jean-Pierre) *see* **Wiener, Norbert, 90b:42022**
Kechris, Alexander S. (*with* Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. **90a:42008**
Louveau, Alain *see* **Kechris, Alexander S., 90a:42008**
Strömberg, Jan-Olov (*with* Torchinsky, Alberto) ★ Weighted Hardy spaces. **90j:42053**
Suetin, P. K. ★ Ортогональные многочлены по двум переменным. (Russian) [Orthogonal polynomials in two variables] **90g:42055**
Torchinsky, Alberto *see* **Strömberg, Jan-Olov, 90j:42053**
Ullman, Joseph L. Orthogonal polynomials for general measures. **90g:42050**
Wiener, Norbert ★ The Fourier integral and certain of its applications. **90b:42022**
Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] **90g:42008**

42–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 42–03

(Descartes, R.) *see* **Eisenberg, Wolfgang, 90g:01011**
(Dzyadyk, V. K.) *see* **Stepanets, A. I., 90f:01054a**
Eisenberg, Wolfgang Theorienauffassungen in der Physikgeschichte. 17. Jahrhundert—zum Vergleich der Theorienauffassungen von R. Descartes und C. Huygens. [Concepts of theories in the history of physics. 17th century—a comparison of the concepts of theories of R. Descartes and C. Huygens] **90g:01011**
(Huygens, Christiaan) *see* **Eisenberg, Wolfgang, 90g:01011**
Laugwitz, Detlef Grundlagen der Analysis bei C. F. Gauß. I. Trigonometrische Reihen. (English summary) [Foundations of analysis in C. F. Gauss. I. Trigonometric series] **90k:01010**
Lighthill, James Reminiscences about Fourier analysis and generalised functions. **90g:01033**
Stein, E. M. Commentary on Fourier analysis. **90j:01032**
Stepanets, A. I. V. K. Dzyadyk's research on the theory of approximating periodic functions. **90f:01054a**

42–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 42–04

Barrett, A. N. (*with* Mackay, A. L.) ★ Spatial structure and the microcomputer. **90b:68096**
Mackay, A. L. *see* **Barrett, A. N., 90b:68096**

42–06 Proceedings, conferences, etc.

(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 90g:42002**
(García-Cuerva, José) *see* **Harmonic analysis and partial differential equations, 90d:42001**
(Vinuesa Tejedor, Jaime) *see* **Orthogonal polynomials and their applications, 90a:42001**

Items listed otherwise than by author

Conference:
  Harmonic Analysis and Partial Differential Equations ★ Harmonic analysis and partial differential equations. **90d:42001**
Congress:
  Orthogonal Polynomials ★ Orthogonal polynomials and their applications. **90a:42001**
Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 42. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 42] **90g:42002**
El Escorial ★ Harmonic analysis and partial differential equations. **90d:42001**
Harmonic analysis and partial differential equations ★ Harmonic analysis and partial differential equations. **90d:42001**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 42. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 42] **90g:42002**
Laredo ★ Orthogonal polynomials and their applications. **90a:42001**
Lecture Notes in Mathematics ★ Harmonic analysis and partial differential equations. **90d:42001**
Orthogonal polynomials and their applications ★ Orthogonal polynomials and their applications. **90a:42001**

Items with secondary classifications in 42–06

(Colella, David) *see* **Commutative harmonic analysis, 90a:43001**
(Combes, J. M.) *see* **Wavelets, 90g:42062**
(Dzyadyk, V. K.) *see* **Harmonic analysis and the development of approximation methods, 90m:41002**
(Gohberg, I.) *see* **Orthogonal matrix-valued polynomials and applications, 90k:41001**
(Grossmann, A.) *see* **Wavelets, 90g:42062**
(Ivanov, Kamen G.) *see* **Constructive theory of functions, 90a:41001**
(Maleev, R. P.) *see* **Constructive theory of functions, 90a:41001**
(Nikol'skiĭ, S. M.) *see* **Theory of functions,** (Not in MR)
(Petrushev, P. P.) *see* **Constructive theory of functions, 90a:41001**
(Sendov, Bl.) *see* **Constructive theory of functions, 90a:41001**
(Tchamitchian, Ph.) *see* **Wavelets, 90g:42062**

Items listed otherwise than by author

All-Union School:
  Theory of Functions ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
Amberd ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
Canton, NY ★ Commutative harmonic analysis. **90a:43001**
Commutative harmonic analysis ★ Commutative harmonic analysis. **90a:43001**
Conference:
  Commutative Harmonic Analysis ★ Commutative harmonic analysis. **90a:43001**
  Constructive Theory of Functions ★ Constructive theory of functions. **90a:41001**
  Wavelets ★ Wavelets. **90g:42062**
Constructive theory of functions ★ Constructive theory of functions. **90a:41001**
Contemporary Mathematics ★ Commutative harmonic analysis. **90a:43001**
Harmonic analysis and the development of approximation methods ★ Гармонический анализ и развитие аппроксимационных методов. (Russian) [Harmonic analysis and the development of approximation methods] **90m:41002**
Marseille ★ Wavelets. **90g:42062**
Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Seminar:
  Operator Theory ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**
Theory of functions ★ Теория функций. (Russian) [Theory of functions] (Not in MR)
Varna ★ Constructive theory of functions. **90a:41001**
Wavelets ★ Wavelets. **90g:42062**

42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

Babenko, A. G. The Jackson inequality in a space of square-summable functions. (Russian) (*see* **90i:00006**)
Chen, Qing Yi Integrals of oscillatory functions with a parameter. (Chinese. English summary) **90d:42002**
Donoho, David L. (*with* Stark, Philip B.) Uncertainty principles and signal recovery. **90c:42003**
Erdélyi, T. (*with* Szabados, J.) Bernstein type inequalities for a class of polynomials. **90f:42001**
Fil'shtinskiĭ, V. A. *see* **Litvinets, P. D., 90a:42002**
Fomin, G. A. Accuracy of A. Lebesgue's generalized inequality in $L_{2\pi}$. (Russian) (*see* **90i:00006**)
Fredman, Michael L. (*with* Saffari, Bahman; Smith, Brent) Polynômes réciproques: conjecture d'Erdős en norme L^4, taille des autocorrélations et inexistence des codes de Barker. (English summary) [Self-inversive polynomials: L^4-norm Erdős conjecture, size of autocorrelations and nonexistence of Barker codes] **90c:42004**
Kashin, B. S. Trigonometric polynomials with coefficients modulo zero or one. (Russian) (*see* **90i:00006**)
Kristiansen, G. K. A property of the trigonometric polynomials $T_{m,p,q}$. **90g:42003**
Litvinets, P. D. (*with* Fil'shtinskiĭ, V. A.) A remark on an estimate for a segment of a trigonometric polynomial. (Russian) **90a:42002**
Liu, Yong Ping The approximation properties of a class of trigonometric polynomial interpolation operators. (Chinese. English summary) **90b:42003**
Logan, B. F. An interference problem for exponentials. **90a:42003**
Pachulia, N. L. Strong summability of the Fourier series of (ψ, β)-differentiable functions. **90h:42001**
Saffari, Bahman *see* **Fredman, Michael L.; et al., 90c:42004**
Shekhtman, Boris On a problem of G. G. Lorentz regarding the norms of Fourier projections. **90g:42004**
Smith, Brent *see* **Fredman, Michael L.; et al., 90c:42004**
Stark, Philip B. *see* **Donoho, David L., 90c:42003**
Stepanov, V. D. Weighted inequalities of Hardy type for higher-order derivatives and their applications. **90k:42002**
Szabados, J. *see* **Erdélyi, T., 90f:42001**
Zeel', È. O. On the theory of lacunary trigonometric operators over equidistant nodes. (Russian) **90k:42003**

Items with secondary classifications in 42A05

Beauzamy, Bernard Inégalité de Jensen et polynômes concentrés aux bas degrés. [Jensen's inequality and polynomials concentrated at low degrees] (*see* **90a:00013**)
Bourgain, J. On the behavior of the constant in the Littlewood-Paley inequality. **90g:26010**
Durand, Alain Quelques aspects de la théorie analytique des polynômes. I, II. [Some aspects of the analytic theory of polynomials. I, II] **90m:12003**
von Golitschek, M. (*with* Lorentz, G. G.) Bernstein inequalities in L_p, $0 \le p \le +\infty$. **90h:26020**

Gregorac, R. J. On Baica's trigonometric identity. **90b:33002**
Hajela, D. Exponential sums and faster than Nyquist signaling. **90m:11122**
Logan, B. F. Bounds for the tails of sharp-cutoff filter kernels. **90m:94009**
Lorentz, G. G. *see* **von Golitschek, M., 90h:26020**
Proĭnov, Petko D. On the Erdős-Turán inequality on uniform distribution. I. **90c:11048a**
— On the Erdős-Turán inequality on uniform distribution. II. **90c:11048b**
Tudor, Gheorghe M. Quelques inégalités sur les polynômes et séries trigonométriques en plusieurs variables. (Romanian summary) [Some inequalities for polynomials and trigonometric series in several variables] **90f:42012**

42A10 Trigonometric approximation

Aleksandrov, Liudmil G. (*with* Popov, Vasil Atanasov) One-sided trigonometrical approximation of periodic multivariate functions. **90e:42001**
Andrienko, V. A. Approximation by Riesz means of negative order. (Russian) (*see* **90i:00006**)
— On the rate of approximation of functions by multiple orthogonal series. (*see* **90a:41001**)
Auer, M. *see* **Runck, P. O.; et al., 90e:42007**
Baskakov, V. A. Comparison of orders of approximation of classes of functions of several variables. (Russian) (*see* **90m:00015**)
Belinskiĭ, É. S. Approximation of functions of several variables by trigonometric polynomials with given number of harmonics, and estimates of ε-entropy. (Russian summary) **90m:42001**
Chandra, Prem (*with* Mohapatra, Ram Narayan) Approximation of functions by (J, q_n) means of Fourier series. **90k:42004**
— Functions in L_p-space and their approximations. (Serbo-Croatian summary) **90e:42002**
— Degree of approximation of continuous functions. **90j:42002**
Chen, Quan De *see* **Shi, Xian Liang, 90c:42005**
Chinchaladze, S. V. Approximation of constants by sums of trigonometric functions. (Russian. English and Georgian summaries) **90j:42003**
Davydov, E. G. (*with* Petrov, I. I.) A boundary value problem and its application to the theory of the approximation of functions. (Russian) (*see* **90d:34003**)
Dvorschak, G. *see* **Runck, P. O.; et al., 90e:42007**
Erdélyi, T. (*with* Szabados, J.) On trigonometric polynomials with positive coefficients. **90k:42005**
Esmaganbetov, M. G. On the accuracy of estimates for the modulus of smoothness of a function in $L_p[0; 2\pi]$, $1 < p < \infty$. (Russian) (*see* **90h:00003**)
— *see also* **Smailov, E. S., 90f:42004**
Falaleev, L. P. Approximate properties of operators of Abel-Poisson operator type. (Russian) (*see* **90d:00046**)
Fomin, G. A. A refined Lebesgue inequality for orthogonal expansions in some normed spaces. (Russian) **90k:42006**
Galeev, È. M. Approximation of periodic functions of one and several variables. (*see* **90a:41001**)
Goodman, T. N. T. (*with* Lee, Seng Luan) Convolution operators with trigonometric spline kernels. **90j:42004**
Guo, Shun Sheng (*with* Xu, Li Zhi) Characterization of the class Lip$^*\alpha$ of periodic functions by means of the Rappoport operator. **90d:42003**
Gupta, Vandana *see* **Pathak, Ashutosh, 90j:42005**
Ibraimkulov, A. M. Estimates for the moduli of smoothness of fractional order of functions in $L[0, 2\pi]$. (Russian) (*see* **90h:00003**)
Il′yasov, Sh. I. Approximation of differentiable functions by partial sums of Fourier-Laguerre series. (Russian) (*see* **90h:00003**)
Imambaeva, B. D. (*with* Seksenbaeva, A. K.) Estimates for the widths of embedding of spaces of smooth functions with weight. (Russian) (*see* **90h:00003**)
Khan, Huzoor H. (*with* Ram, Govind) On the degree of approximation. II. **90g:42005**
Koch, Per Erik Multivariate trigonometric B-splines. **90d:42004**
Koval′chuk, I. R. Approximation of classes of (ψ, β)-differentiable functions by Steklov sums. (Russian) **90d:42005**
— Approximation of classes of (ψ, β)-differentiable functions by Rogosinski polynomials. (Russian) **90e:42003**
Koval′skaya, I. B. Approximation of classes of periodic functions by analogues of Zygmund sums in the metric of C. (Russian) **90e:42004**
Kulik, A. N. An upper bound on the deviation of de la Vallée-Poussin sums on classes of differentiable functions. (Russian) **90f:42002**
Lee, Seng Luan *see* **Goodman, T. N. T., 90j:42004**
Mazhar, S. M. On the degree of approximation of functions of generalized bounded variation. (Russian and Slovak summaries) **90b:42004**
Mohapatra, Ram Narayan Degree of approximation of Hölder continuous functions. **90i:42001**
— *see also* **Chandra, Prem, 90k:42004**
Nema, H. K. *see* **Qureshi, K., 90b:42005; 90e:42005** *and* **90m:42002**
Pachulia, N. L. *see* **Stepanets, A. I., 90e:42009c**
Pandzhikidze, L. K. Convergence of multiple conjugate series in the metric of $L(\mathbf{R}_n)$ and the integrability of conjugate functions of several variables. (Russian. English and Georgian summaries) (Not in MR)
Pathak, Ashutosh (*with* Gupta, Vandana) Approximation of functions by the Nörlund means of a conjugate Fourier series. (Hindi. English summary) **90j:42005**
Petrov, I. I. *see* **Davydov, E. G., (90d:34003)**
Petukhov, A. P. Dependence of the properties of the set of points of discontinuity of a function on the rate of its Hausdorff polynomial approximations. (Russian) **90j:42006**
Popov, Vasil Atanasov *see* **Aleksandrov, Liudmil G., 90e:42001**
Prestin, Jürgen Trigonometric approximation by Euler means. **90j:42007**
Pritula, Ya. G. (*with* Yatsimīrs′kiĭ, M. M.) Estimates for approximations of B^2 almost periodic functions. (Ukrainian. Russian summary) **90j:42008**
Qian, Pei Ling One-sided approximation of generalized Bernoulli functions by trigonometric polynomials. (Chinese. English summary) **90h:42002**
Qureshi, K. (*with* Nema, H. K.) Error bounds in the approximation of functions. **90b:42005**
— (*with* Nema, H. K.) A note on the degree of approximation of a periodic function f by almost triangular matrix means. **90e:42005**
— (*with* Nema, H. K.) On the degree of approximation of a periodic function f by almost Nörlund means of conjugate series. **90m:42002**
Raĭtsin, R. A. Fourier-Chebyshev series of a class of functions. **90b:42006**
Ram, Govind *see* **Khan, Huzoor H., 90g:42005**
Romanyuk, A. S. Estimates for best approximations and diameters of classes $L^{\psi}_{\beta,p}$ of periodic functions of several variables. (Russian) **90e:42006**
Rovba, E. A. Approximation of the function $|\sin x|$ by rational Fourier series. **90m:42003**
Runck, P. O. (*with* Auer, M.; Dvorschak, G.) Best constants for the simultaneous approximation of periodic functions by trigonometric polynomials. **90e:42007**
Rzaev, R. M. Local theorems for the approximation of periodic functions. (Russian) (Not in MR)
Salvatori, Maura Approximation of continuous functions by smoothed Fourier polynomials. (Italian summary) **90e:42008**
Seksenbaeva, A. K. *see* **Imambaeva, B. D., (90h:00003)**
Shevaldin, V. T. Lower bounds on widths of classes of sourcewise representable functions. (Russian) **90i:42002**
Shevchuk, I. A. Properties of Dzyadyk's polynomial kernels on a segment. **90f:42003**
Shi, Xian Liang (*with* Chen, Quan De) Approximation in the mean to periodic functions by $[F, d_n]$. (Chinese) **90c:42005**
Shogunbekov, Sh. Sh. Approximation by Fourier sums of functions of small smoothness. (Russian. Tajiki summary) **90a:42004**
Smailov, E. S. (*with* Esmaganbetov, M. G.) Accuracy of estimates for the modulus of smoothness of positive order of a function in $L_p[0, 2\pi]$, $1 < p < \infty$. (Russian) **90f:42004**
Starovoĭtov, A. P. Rational approximation of functions that are differentiable in the Riemann-Liouville sense. (Russian) (*see* **90d:00046**)
Stepanets, A. I. ★ Классификация и приближение периодических функций. (Russian) [Classification and approximation of periodic functions] **90b:42007**
— Approximation by entire functions in the uniform metric. (Russian) **90e:42009a**
— (*with* Stepanets, N. I.) Approximation by entire functions in the mean. (Russian) **90e:42009b**
— (*with* Pachulia, N. L.) Estimates for strong mean deviations of Fourier operators in the uniform metric. (Russian) **90e:42009c**
— On the Lebesgue inequality on classes of (ψ, β)-differentiable functions. **90h:42003**
— (*with* Zhukina, E. I.) Inverse theorems for the approximation of (ψ, β)-differentiable functions. **90k:42007**
Stepanets, N. I. *see* **Stepanets, A. I., 90e:42009b**
Sulaiman, W. T. On the degree of approximation of functions belonging to class LIP(α, p) by triangular matrix of its Fourier series. **90g:42006**
Szabados, J. *see* **Erdélyi, T., 90k:42005**
Telyakovskiĭ, S. A. Approximation of functions of given classes by Fourier sums. (Russian) (*see* **90i:00006**)
— Approximation by Fourier sums of functions of high smoothness. **90h:42004**
Temlyakov, V. N. Approximation of functions of several variables by trigonometric polynomials with harmonics of hyperbolic crosses. **90i:42003**
Trivedi, G. S. On the degree of approximation to a function by the Cesàro means of its Fourier series. (Hindi. English summary) **90g:42007**
Xing, Xiu Qin The approximation of periodic functions having variable smoothness by trigonometric polynomials. (Chinese. English summary) **90h:42005**
Xu, Li Zhi *see* **Guo, Shun Sheng, 90d:42003**
Yatsimīrs′kiĭ, M. M. *see* **Pritula, Ya. G., 90j:42008**
Ye, Nan Fa An improvement and generalization of D. Jackson's theorem. (Chinese. English summary) **90b:42008**
Zhuk, V. V. ★ Сильная аппроксимация периодических функций. (Russian) [Strong approximation of periodic functions] **90g:42008**
Zhukina, E. I. *see* **Stepanets, A. I., 90k:42007**

Items with secondary classifications in 42A10

Babenko, A. G. The Jackson inequality in a space of square-summable functions. (Russian) (*see* **90i:00006**)
Badea, C. (*with* Badea, I.; Cottin, C.) A Korovkin-type theorem for generalizations of Boolean sum operators and approximation by trigonometric pseudopolynomials. **90f:41019**
Badea, I. *see* **Badea, C.; et al., 90f:41019**
Barbin, A. V. Best approximation of periodic functions, analytic in a strip, with bounded imaginary part. (Russian) **90e:30036**
Baskakov, V. A. Approximation of different classes of functions by the same sequence of linear operators. (Russian) (*see* **90i:00006**)
Blatt, H.-P. (*with* Lorentz, G. G.) On a theorem of Kadec. **90d:41049**
Boyd, John Philip Chebyshev domain truncation is inferior to Fourier domain truncation for solving problems on an infinite interval. **90c:65015**
Chandra, Prem On the degree of approximation of a class of functions by means of Fourier series. **90j:42014**
Cottin, C. *see* **Badea, C.; et al., 90f:41019**
Davydov, O. V. Asymptotic behavior of best approximations of individual functions of classes $W^r H_\omega$ in the metric L_p. **90m:41038**
Delvos, Franz-Jürgen Mean approximation via interpolation by translation. **90j:42009**
Erdélyi, T. (*with* Szabados, J.) Bernstein type inequalities for a class of polynomials. **90f:42001**
Ermakov, A. I. An estimate for the derivative of algebraic polynomials and entire functions of a finite degree in S. N. Bernstein's class. (Russian) (*see* **90h:00005**)
Fang, Gen Sun One-sided N-widths for a class of periodic functions. **90g:41035**
— *see also* **Sun, Yong Sheng; et al., (90a:41001)**
Gal, S. G. Approximation of real-valued functions by monotone sequences of polynomials. **90c:41008**
Huang, Da Ren *see* **Sun, Yong Sheng; et al., (90a:41001)**
Joó, István On the order of approximation by Fejér means of Hermite-Fourier and Laguerre-Fourier series. **90d:41034**

Kogan, D. A. A comparison of summation processes with the Riesz process in Banach spaces. (Russian. English summary) **90g:42059**

Kushpel', A. K. On an estimate for widths of sets in some function spaces. (Russian) **90e:42023**

(Kuznetsov, Yuriĭ Alekseevich) *see* **Sendov, Bl., 90e:41001**

Łenski, Włodzimierz On the almost strong summability and convergence of Fourier series. **90f:42008**

Lorentz, G. G. *see* **Blatt, H.-P., 90d:41049**

Mazhar, S. M. Approximation by Fourier Stieltjes series. **90d:42009**

(McFaden, H. H.) *see* **Temlyakov, V. N., 90e:00007**

Mhaskar, H. N. The rate of convergence of expansions in Freud polynomials. **90g:41010**

Miamee, A. G. (*with* Pourahmadi, Mohsen) Best approximations in $L^p(d\mu)$ and prediction problems of Szegő, Kolmogorov, Yaglom, and Nakazi. **90g:60042**

Nitka-Styczeń, Krystyna *see* **Styczeń, Krystyn,** (Not in MR)

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Yussef, Kh. On best approximations of functions and on values of widths of classes of functions in L_2. (Russian) **90d:41045**

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42A15 Trigonometric interpolation

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— (*with* Szabados, J.; Varga, Richard S.) 2-periodic lacunary trigonometric interpolation: the $(0; M)$ case. **90e:42010**

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Varga, Richard S. *see* **Sharma, Ambikeshwar; et al., 90e:42010**

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Kamp, Y. *see* **Delsarte, Philippe; et al., 90g:42016**

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Zeel', È. O. Trigonometric (o, p, q, r)-interpolation over equidistant nodes. (Russian) (*see* **90d:00009**)

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series

Abdrasheva, G. An integral property of a function with transformed Fourier coefficients. (Russian) (*see* **90h:00003**)

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Beriša, Muharem Č. Fourier coefficients of functions belonging to Besov classes. (Russian. English and Serbo-Croatian summaries) **90f:42005**

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2A20 Convergence of Fourier and trigonometric series

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Megrabyan, R. M. On a characteristic of random matrices connected with unconditional convergence almost everywhere. (Russian summary) **90e:42011**

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— On the integrability and L^1-convergence of sine series. **90e:42012**

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Mushegyan, G. M. Coefficients of a rearranged series in a trigonometric system and in bases of the space $C[0,1]$ that converges everywhere to a function in L_p, $1 \leq p < 2$. (Russian. English and Armenian summaries) **90h:42009**

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42A24 Summability of Fourier and trigonometric series

Agrawal, S. N. *see* **Varma, Sushama K., 90e:42016** *and* **Verma, S. K., 90j:42018**

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Settu, S. A. *see* **Rangachari, M. S., 90d:42010**

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— *see also* **Gupta, Rajendra Prasad, 90g:42014**

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— Summability of double orthogonal series by Riesz methods. (Russian. English summary) **90g:42042**

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Qureshi, K. (*with* Nema, H. K.) A note on the degree of approximation of a periodic function f by almost triangular matrix means. **90e:42005**
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Skopina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. **90f:42011**
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Stepanets, A. I. ★ Классификация и приближение периодических функций. (Russian) [Classification and approximation of periodic functions] **90b:42007**
— (*with* Pachulia, N. L.) Estimates for strong mean deviations of Fourier operators in the uniform metric. (Russian) **90e:42009c**
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Tripathi, L. M. *see* **Pandey, B. N., 90g:42054**
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42A28 Absolute convergence, absolute summability

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Chan Min' Absolute convergence of series of Fourier coefficients. **90b:42017**
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Hotta, G. C. (*with* Padhi, T. C.) A note on $|\overline{N}, p_n|$ summability of an associated conjugate series of a Fourier series. (Not in MR)
Jena, S. C. (*with* Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. **90b:42018**
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— (*with* Farĭon, Z. D.) Sufficient conditions for absolute convergence of Fourier series of some classes of S^p-almost periodic matrices. (Ukrainian. Russian summary) **90j:42022**
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Lenski, Włodzimierz On the almost strong summability and convergence of Fourier series. **90f:42008**
Mohapatra, U. K. (*with* Jena, S. C.; Padhi, Padmini) A note on local property of absolute matrix summability of a Fourier series. (Not in MR)
Musielak, Helena On strong Euler absolute φ-summability a.e. of orthonormal series. **90e:42018**
Novikov, I. Ya. (*with* Rodin, V. A.) Characterization of points of p-strong summability of trigonometric series, $p \geq 2$. **90g:42015**
Novikova, N. S. Absolute matrix summability of degree p of Fourier series. (Russian) **90i:42010**
Pachulia, N. L. (*with* Stepanets, A. I.) Strong summability of Fourier series in classes of (ψ, β)-differentiable functions. (Russian) **90i:42011**
— Points of strong summability of Fourier series. (Russian. English and Georgian summaries) **90m:42012**
Padhi, Padmini *see* **Jena, S. C., 90e:42017; Mohapatra, U. K.; et al.,** (Not in MR) *and* **Jena, S. C.,** (Not in MR)
Padhi, T. C. *see* **Hotta, G. C.,** (Not in MR)
Patadia, J. R. (*with* Shah, V. M.) On the absolute convergence of lacunary Fourier series. **90d:42011**
Polovina, N. T. Strong summability in degree $p \geq 1$ of Fourier series by triangular matrix methods. (Russian) **90i:42012**
Rashwan, R. A. On the absolute convergence of lacunary vector valued Fourier coefficients series. **90b:42019**
Rhoades, B. E. *see* **Kuttner, B., 90f:42007**
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Samal, M. On the absolute N_q-summability of some series associated with Fourier series. **90e:42019**
Shah, V. M. *see* **Patadia, J. R., 90d:42011**
Stepanets, A. I. *see* **Pachulia, N. L., 90i:42011**
Sulaiman, W. T. On $|\overline{N}, p_n|_k$ summability factors of Fourier series. **90b:42020**
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Swamy, N. N. *see* **Jena, S. C., 90b:42018**
Tsagareĭshvili, V. Sh. Absolute convergence of Fourier series of a function of class $\sigma(\alpha)$ and Lip α. (Russian. English and Georgian summaries) (Not in MR)
Volkova, N. I. (*with* Zaezzhaĭ, M. L.) Absolute summability of Fourier series with a factor by the Voronoĭ-Nörlund method. (Russian) **90i:42013**
— Absolute summability of degree p of Fourier series by the Euler method. (Russian) **90j:42023**
Zaezzhaĭ, M. L. *see* **Volkova, N. I., 90i:42013**
Zhukina, E. I. Inverse theorems. (Russian) **90e:42020**

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Bass, Jean Limites de moyennes. [Mean value limits] **90c:42019**
Giroux, André *see* **Newman, Donald J., 90h:30017**
Newman, Donald J. (*with* Giroux, André) Properties on the unit circle of polynomials with unimodular coefficients. **90h:30017**
Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) **90e:46028**
Sulaiman, W. T. On absolute Nörlund summability of Laplace series. **90g:42056**
Szalay, I. On the strong Cesàro summability of double orthogonal series. **90b:40013**

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

Brown, Gavin (*with* Wilson, David Charles) A class of positive trigonometric sums. II. **90j:42024**
Delsarte, Philippe (*with* Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. **90g:42016**
Gaĭduk, S. I. A study of the properties of sums of a class of trigonometric series. (Russian. English summary) **90b:42021**
Genin, Yves *see* **Delsarte, Philippe; et al., 90g:42016**
Kamp, Y. *see* **Delsarte, Philippe; et al., 90g:42016**
Katsoprinakis, E. S. On a theorem of Marcinkiewicz and Zygmund for Taylor series. **90i:42014**
Telyakovskiĭ, S. A. Integrability of a monotone majorant of a sum of a trigonometric series with quasiconvex coefficients. **90k:42014**
Wilson, David Charles *see* **Brown, Gavin, 90j:42024**

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Körner, T. W. Universal trigonometric series with rapidly decreasing coefficients. **90g:42011**
Kumari, Suresh *see* **Ram, Babu, 90m:42010**
Móricz, F. On the integrability and L^1-convergence of sine series. **90e:42012**
— On double cosine, sine, and Walsh series with monotone coefficients. **90i:42020**
Ram, Babu (*with* Kumari, Suresh) On L^1-convergence of certain trigonometric sums. **90m:42010**
Sheng, Shu Yun A Tauberian theorem concerning L^1 convergence of Fourier series. (Chinese) **90b:42014**

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Apetova, T. V. Strong summability of Fourier integrals. (Russian) **90e:42021**
Auslander, L. (*with* Grünbaum, F. A.) The Fourier transform and the discrete Fourier transform. **90d:42012**
Barceló, Juan A. (*with* Córdoba, A.) Band-limited functions: L^p-convergence. **90g:42017**
Benedetto, J. J. (*with* Heinig, H. P.; Johnson, Raymond L.) Fourier inequalities with A_p-weights. **90k:42015**
Burenkov, V. I. Estimates for Fourier transforms and convolutions in Nikol'skiĭ-Besov spaces. (Russian) **90h:42016**
Burzyk, J. A Paley-Wiener type theorem for regular operators of bounded support. **90m:42013**
Chen, Yong Zhuo (*with* Lau, Ka Sing) Wiener transformation on functions with bounded averages. **90g:42018**
Chu, Fu Lai (*with* Huang, Chi Fang) On the calculation of the Fourier transform of a polygonal shape function. **90c:42010**
Córdoba, A. *see* **Barceló, Juan A., 90g:42017**
Grünbaum, F. A. *see* **Auslander, L., 90d:42012**
Heinig, H. P. *see* **Benedetto, J. J.; et al., 90k:42015**
Huang, Chi Fang *see* **Chu, Fu Lai, 90c:42010**
Johnson, Raymond L. *see* **Benedetto, J. J.; et al., 90k:42015**
(Kahane, Jean-Pierre) *see* **Wiener, Norbert, 90b:42022**
Kerr, Fiona H. Namias' fractional Fourier transforms on L^2 and applications to differential equations. **90i:42015**
— *see also* **McBride, A. C., 90e:42022**
Kuo, Chia Nan Interpolated Fourier transforms. **90c:42011**
Lau, Ka Sing *see* **Chen, Yong Zhuo, 90g:42018**
Lenyuk, M. P. An integral Fourier transform on a piecewise-inhomogeneous half-line. (Russian) **90j:42025**
— Hybrid integral transforms (Bessel-Fourier-Bessel). (Russian) **90m:42014**
McBride, A. C. (*with* Kerr, Fiona H.) On Namias's fractional Fourier transforms. **90e:42022**
Musielak, Anna Some estimations for Fourier transforms. **90j:42026**
Petrosyan, A. A. Estimates for spectra of discrete Fourier transforms. (Russian. Armenian summary) **90m:42015**
Sinha, Sunil Kumar^1 On two new characterizations of the Fourier transform for distributions. **90g:42019**
Ugrin-Šparac, D. Fourier transform of the function $(x-a)^{-n}\exp(i\lambda x^2)$. **90c:42012**
Wiener, Norbert ★ The Fourier integral and certain of its applications. **90b:42022**
Zotikov, S. V. Determination of the Fourier transform and integral in relation to the cross product of orthonormal systems of functions in the space L_2. (Russian) **90i:42016**

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Arias de Reyna Martínez, Juan On the theorem of Frullani. **90h:26008**
Baker, John A. Functional equations, tempered distributions and Fourier transforms. **90k:39006**
Bykovskiĭ, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. **90c:11077**
Clausen, Michael Fast Fourier transforms for metabelian groups. **90e:94002**
Csordas, G. (*with* Varga, Richard S.) Fourier transforms and the Hermite-Biehler theorem. **90b:30005**
Cunningham, Michael John *see* **Oakley, John Peter; et al., 90k:42050**
Daly, James E. Factorization of Hardy spaces on local fields. **90a:46049**
Demenko, V. N. On p-Helson sets in $\mathbf{R}^n$. (Russian summary) **90h:43009**
Devaney, Anthony J. The limited-view problem in diffraction tomography. **90h:78018**
Díaz Bejarano, José (*with* Martín Sánchez, Á.) Generalized Fourier transforms for nonlinear systems. **90f:34012**
Fill, James Allen The Radon transform on Z_n. **90m:44006**
Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_2(\mathbf{R}^n)$. **90a:47054**
Jenkins, W. Kenneth *see* **Marshall, Daniel F.; et al., 90c:94007**
Kamada, Masaru (*with* Toraichi, Kazuo; Mori, Ryoichi) Periodic spline orthonormal bases. **90c:41017**
Kawai, Toru A nonstandard representation of Fourier transforms of continuous functions. **90m:43015**
Kolesárová, Anna Fourier transforms of vector-valued measures on certain compact semigroups. (*see* **90a:00026**)
Komarov, V. N. (*with* Lovetskiĭ, K. P.; Mikulich, A. V.; Sevast′yanov, L. A.) A consistent stable solution of problems of the direct and the inverse Fourier transform. (Russian) (*see* **90a:00008**)
Little, Graham *see* **Oakley, John Peter; et al., 90k:42050**
Lovetskiĭ, K. P. *see* **Komarov, V. N.; et al., (90a:00008)**
Lyubarskiĭ, Yu. I. The Paley-Wiener theorem for convex sets. **90b:30029**
Marshall, Daniel F. (*with* Jenkins, W. Kenneth; Murphy, J. J.) The use of orthogonal transforms for improving performance of adaptive filters. **90c:94007**
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Mori, Ryoichi *see* **Kamada, Masaru; et al., 90c:41017**
Moses, H. E. (*with* Prosser, R. T.) A refinement of the Radon transform and its inverse. **90f:44003**
Mullaev, M. U. A space, conjugate to $E^p(\mathscr{D})$ $(1 \leq p < \infty)$, and a simple generalization of the Wiener-Paley theorem. (Russian) (*see* **90d:41001**)
Murphy, J. J. *see* **Marshall, Daniel F.; et al., 90c:94007**
Oakley, John Peter (*with* Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N-dimensional space. **90k:42050**
Prosser, R. T. *see* **Moses, H. E., 90f:44003**
Ron, Amos A necessary and sufficient condition for the linear independence of the integer translates of a compactly supported distribution. **90g:41019**
Rosenblatt, Joseph Determining a distribution from the modulus of its Fourier transform. **90h:46073**
Sevast′yanov, L. A. *see* **Komarov, V. N.; et al., (90a:00008)**
Shevchik, V. V. On the Fourier transformation as an operator of dense embedding. (Russian) **90j:46037**
Sun, Qi Some results in the application of the number theory to digital signal processing and public-key systems. **90e:11193**
Timotin, Dan C_p-estimates for certain kernels on local fields. **90a:42010**
Tiwari, A. K. On a distributional generalized Laplace transform. **90k:44002**
Toraichi, Kazuo *see* **Kamada, Masaru; et al., 90c:41017**
Varga, Richard S. *see* **Csordas, G., 90b:30005**

42A45 Multipliers

Cowling, Michael (*with* Fendler, Gero; Fournier, John J. F.) Variants of Littlewood-Paley theory. **90m:42016**
Fendler, Gero *see* **Cowling, Michael; et al., 90m:42016**
Fournier, John J. F. *see* **Cowling, Michael; et al., 90m:42016**
Johnson, Raymond L. (*with* Neugebauer, C. J.) Homeomorphisms preserving A_p. **90d:42013**
Kushpel′, A. K. On an estimate for widths of sets in some function spaces. (Russian) **90e:42023**
Lippus, J. On the preservation of classes of functions. (Russian and Estonian summaries) **90d:42014**
Lu, Shan Zhen Decomposition of kernel and maximal generalized Bochner-Riesz means. (Chinese summary) **90k:42016**
Neugebauer, C. J. *see* **Johnson, Raymond L., 90d:42013**
Patel, N. V. (*with* Shah, V. M.) On the order of Fourier coefficients of a lacunary Fourier series. **90j:42027**
Shah, V. M. *see* **Patel, N. V., 90j:42027**
Stepanov, V. D. Multipliers of Fourier integrals generated by characteristic functions of sets of the real axis. **90h:42017**
Trigub, R. M. Multipliers of Fourier series and approximation of functions by polynomials in the spaces C and L. **90j:42028**

Items with secondary classifications in 42A45

Betancor, Jorge J. On the boundedness and the range of the Lommel-Maitland transformation. **90j:44005**
Hare, Kathryn E. (*with* Klemes, Ivo) Properties of Littlewood-Paley sets. **90f:42018**
Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. **90c:47068**
Klemes, Ivo *see* **Hare, Kathryn E., 90f:42018**
Shekhtman, Boris On a problem of G. G. Lorentz regarding the norms of Fourier projections. **90g:42004**
Stoilov, Peĭo Multipliers of integrals of Cauchy-Lebesgue type in domains with a rectifiable boundary. (Russian. English summary) **90i:30067**

42A50 Conjugate functions, conjugate series, singular integrals

Abdullaev, A. K. On an estimate for a singular integral. (Russian) **90f:42009**
Bloom, Steven Pointwise multipliers of weighted BMO spaces. **90c:42013**
Coifman, R. (*with* Jones, Peter Wilcox; Semmes, Stephen) Two elementary proofs of the L^2 boundedness of Cauchy integrals on Lipschitz curves. **90k:42017**
Jones, Peter Wilcox *see* **Coifman, R.; et al., 90k:42017**
Kashevskiĭ, V. V. Limit formulas for a singular integral. (Russian) **90c:42014**
Kokilashvili, V. M. Fractional integrals on curves. **90c:42015**
Lukashenko, T. P. (*with* Ryazanova, M. P.) Inequalities of weak type for the Hilbert operator. (Russian) (*see* **90h:00003**)
Mekler, A. A. A weakening of Muckenhoupt's A_1-condition for positive nonincreasing functions. (Russian) **90k:42018**
Osborne, M. Scott (*with* Warner, Garth) On the Dini calculus. II. **90h:42018**
Ryazanova, M. P. *see* **Lukashenko, T. P., (90h:00003)**
Semmes, Stephen *see* **Coifman, R.; et al., 90k:42017**
Singh, K. N. Determination of the jump of a function by its conjugate of a Fourier series. (Not in MR)
Soria, Fernando On an extrapolation theorem of Carleson-Sjölin with applications to a.e. convergence of Fourier series. **90k:42019**
Warner, Garth *see* **Osborne, M. Scott, 90h:42018**
Wegert, E. (*with* von Wolfersdorf, L.) A uniform inequality for the finite Hilbert transform in weighted Lebesgue spaces. **90e:42024**
Wik, Ingemar On Muckenhoupt's classes of weight functions. **90j:42029**
von Wolfersdorf, L. *see* **Wegert, E., 90e:42024**
You, Zhong A new necessary and sufficient condition for L^2 boundedness of singular integral operators. (Chinese. English summary) **90e:42025**

Items with secondary classifications in 42A50

Alegría, Pedro On the Adamjan-Arov-Kreĭn and Arocena parametrizations: a constructive and generalized version. (Spanish summary) **90a:47017**
Cotlar, Mischa (*with* Sadosky, Cora) Generalized Bochner theorem in algebraic scattering systems. **90i:47006**
Jena, S. C. (*with* Swamy, N. N.) Absolute summability of the conjugate series of a Fourier series. **90b:42018**
Jurkat, Wolfgang B. (*with* Waterman, Daniel) Conjugate functions and the Bohr-Pál theorem. **90m:42008**
Korenblum, Boris A sharper form of a theorem of Kolmogorov. **90e:30032**
Mazhar, S. M. Approximation by Fourier Stieltjes series. **90d:42009**
Noell, Alan V. (*with* Wolff, Thomas H.) On peak sets for Lip α classes. **90k:30062**
Sadosky, Cora *see* **Cotlar, Mischa, 90i:47006**
Siddiqi, R. N. On rate of convergence of the conjugate Fourier series of a function of Wiener's class. **90h:42010**
— On convergence of the conjugate Fourier series of a function of Wiener's class. **90f:42006**
Slavin, Charles P. Properties of power series coefficients of $H^2(\Pi_+)$ functions. **90k:30068**
Swamy, N. N. *see* **Jena, S. C., 90b:42018**
Waterman, Daniel *see* **Jurkat, Wolfgang B., 90m:42008**
Wolff, Thomas H. *see* **Noell, Alan V., 90k:30062**

42A55 Lacunary series of trigonometric and other functions; Riesz products

Belov, A. S. On some local properties of the sum of lacunary trigonometric series. (Russian summary) **90e:42026**
Kilmer, S. J. (*with* Saeki, Sadahiro) On Riesz product measures; mutual absolute continuity and singularity. (French summary) **90a:42006**
— Equivalence of Riesz products. **90j:42030**
Levizov, S. V. Weakly lacunary trigonometric series. **90a:42007**
Patadia, J. R. Lacunary Fourier series on certain groups. **90m:42017**
Saeki, Sadahiro *see* **Kilmer, S. J., 90a:42006**

Items with secondary classifications in 42A55

Berkes, István On almost i.i.d. subsequences of the trigonometric system. **90b:60058**
Hare, Kathryn E. Strict-2-associatedness for thin sets. **90c:43004**
Isaza, P. (*with* Waterman, Daniel) Fourier series with small gaps. **90c:42006**
Lai, Qin Sheng Weighted BMO on spaces of homogeneous type. (Chinese) **90h:46065**
Lyons, Russell Singular measures with spectral gaps. **90b:43008**
Moran, William Ergodic measures for the irrational rotation on the circle. **90f:28013**
Patadia, J. R. (*with* Shah, V. M.) On the absolute convergence of lacunary Fourier series. **90d:42011**
Patel, N. V. (*with* Shah, V. M.) On the order of Fourier coefficients in lacunary Fourier series. **90i:42006**
Shah, V. M. *see* **Patadia, J. R., 90d:42011** *and* **Patel, N. V., 90i:42006**
Sharma, Ambikeshwar Lacunary trigonometric interpolation on equidistant nodes (a survey). **90h:42006**
Waterman, Daniel *see* **Isaza, P., 90c:42006**

42A61 Probabilistic methods

Garyga, Hanna (*with* Hulanicki, Andrzej) Growth of the norms of products of randomly dilated functions from $A(T)$. **90b:42023**
Hulanicki, Andrzej *see* **Garyga, Hanna, 90b:42023**

Items with secondary classifications in 42A61

Kawata, Tatsuo Lipschitz classes and Fourier series of stochastic processes. **90a:60072**
Levizov, S. V. Weakly lacunary trigonometric series. **90a:42007**
Li, Jia Liang Random nonharmonic Fourier series. (Chinese. English summary) **90h:42045**

Michaletzky, Gy. Hankel-norm approximation of a rational function using stochastic realizations. (Not in MR)
Mishra, M. N. *see* **Nayak, C.; et al., 90j:60051**
Nayak, C. (*with* Pattanayak, S.; Mishra, M. N.) Random Fourier-Stieltjes series associated with Lipschitz class of stochastic processes. **90j:60051**
Orsingher, Enzo On the maximum of Gaussian Fourier sine series connected with random vibrations. **90b:35140**
Pattanayak, S. *see* **Nayak, C.; et al., 90j:60051**
Ryazantseva, V. V. Convergence of trigonometric random series in norms of Orlicz spaces. **90j:60053**

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Aĭzenberg, L. A. Uniqueness sets for Wiener classes. An analogue of the Kotel′nikov theorem for nonuniform reference frames. Inversion of the Radon transform from incomplete data. (Russian. Serbo-Croatian summary) (*see* **90j:30001**)
Ash, J. Marshall A new proof of uniqueness for multiple trigonometric series. **90c:42016**
— Erratum: "A new proof of uniqueness for multiple trigonometric series" [Proc. Amer. Math. Soc. **107** (1989), no. 2, 409–410; MR 90c:42016]. **90j:42031**
Dougherty, R. (*with* Kechris, Alexander S.) Hausdorff measures and sets of uniqueness for trigonometric series. **90g:42020**
Gevorkyan, G. G. On coefficients of null-series and on sets of uniqueness of trigonometric and Walsh systems. (Russian summary) **90c:42017**
— Trigonometric integrals that are integrable by the Riemann method. (Russian) **90i:42017**
Kechris, Alexander S. (*with* Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. **90a:42008**
— *see also* **Dougherty, R., 90g:42020**
Louveau, Alain *see* **Kechris, Alexander S., 90a:42008**
Miyazaki, Hiroshi Central functions on SU(2) with nonnegative Fourier coefficients. **90f:42010**
Skopina, M. A. Absence of localization for a trigonometric Fourier series in the two-dimensional case. (Russian) (*see* **90d:00009**)

Items with secondary classifications in 42A63

Ash, J. Marshall Uniqueness of representation by trigonometric series. **90k:42021**
Bloshanskiĭ, I. L. The structure and geometry of the maximal sets of convergence and of unbounded divergence almost everywhere of multiple Fourier series from L_1 equal to zero on a given set. **90j:42035**
Lyons, Russell A new type of sets of uniqueness. **90m:43024**
— Singular measures with spectral gaps. **90b:43008**
Skopina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. **90f:42011**

42A65 Completeness of sets of functions

Lyubarskiĭ, Yu. I. Completeness and minimality of a Rayleigh system. (Russian) **90c:42018**
— Completeness and minimality of systems of functions of the form $\{a(t)\psi^n(t) - b(t)\varphi^n(t)\}_N^\infty$. (Russian) **90j:42032**
Mustafin, M. A. The Riesz basis of a system of sines. (Russian) **90k:42020**
Saburova, T. N. Some properties of the Faber-Schauder system. (Russian) (*see* **90d:00046**)

Items with secondary classifications in 42A65

Bilalov, B. T. The basis property of some systems of functions. (Russian) **90b:41030**
Ul′yanov, P. L. Some results and problems from basis theory. (Russian) (*see* **90i:00006**)

42A70 Trigonometric moment problems

Jones, William B. (*with* Njåstad, Olav; Thron, W. J.) Moment theory, orthogonal polynomials, quadrature, and continued fractions associated with the unit circle. **90e:42027**
Njåstad, Olav *see* **Jones, William B.; et al., 90e:42027**
Stanomir, D. An entire function approach to harmonic synthesis. I. General results. **90d:42015a**
— An entire function approach to harmonic synthesis. II. Removable poles located at $s = 0$. **90d:42015b**
Thron, W. J. *see* **Jones, William B.; et al., 90e:42027**

Items with secondary classifications in 42A70

Chandler, J. D., Jr. Moment problems for compact sets. **90c:44007**
Delsarte, Philippe (*with* Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. **90g:42016**
Genin, Yves *see* **Delsarte, Philippe; et al., 90g:42016**
Gohberg, I. (*with* Kaashoek, M. A.; Woerdeman, H. J.) The band method for positive and strictly contractive extension problems: an alternative version and new applications. **90c:47022**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 90c:47022**
Kamp, Y. *see* **Delsarte, Philippe; et al., 90g:42016**
Marcellán, Francisco (*with* Pérez Grasa, I.) The moment problem on equipotential curves. **90f:30042**
Pérez Grasa, I. *see* **Marcellán, Francisco, 90f:30042**
Woerdeman, H. J. *see* **Gohberg, I.; et al., 90c:47022**

42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Bass, Jean Limites de moyennes. [Mean value limits] **90c:42019**
Chen, Yong Zhuo (*with* Lau, Ka Sing) Harmonic analysis on functions with bounded means. **90i:42018**
Lau, Ka Sing *see* **Chen, Yong Zhuo, 90i:42018**
Lisevich, L. M. A case of an indeterminate integral from an almost periodic function. (Ukrainian. Russian summary) (Not in MR)
Nasirli, N. B. A compactness criterion for a class of almost periodic Besicovitch functions. (Russian) (*see* **90d:00046**)
Strichartz, Robert S. Magnified curves on a flat torus, determination of almost periodic functions, and the Riemann-Lebesgue lemma. **90d:42016**
Upton, C. J. F. Some new classes of almost periodic functions. **90m:42018**

Items with secondary classifications in 42A75

Blot, Joël Lagrange multipliers in variational problems in mean. **90a:49033**
Farion, Z. D. *see* **Koval′chuk, B. V., 90j:42022**
Koval′chuk, B. V. (*with* Farion, Z. D.) Sufficient conditions for absolute convergence of Fourier series of some classes of S^p-almost periodic matrices. (Ukrainian. Russian summary) **90j:42022**
Sari, Tewfik Fonctions presque-périodiques. [Almost periodic functions] (*see* **90j:03116**)
Spitkovskiĭ, I. M. Factorization of almost-periodic matrix functions. **90k:47033**
Weit, Yitzhak An asymptotic characterization of harmonic functions. **90d:31012**

42A82 Positive definite functions

Zhang, Jian A necessary and sufficient condition for a nonnegative definite function to be regular. (Chinese. English summary) **90b:42024**

Items with secondary classifications in 42A82

Bekker, M. B. An integral representation of Hermitian-positive matrix kernels of a special structure. **90f:47022**
Dym, H. ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**

42A85 Convolution, factorization

Borichev, A. A. A Titchmarsh-type convolution theorem on the group **Z**. **90m:42019**
Budke, Georg On a convolution property characterizing the Laguerre functions. **90g:42021**
Doss, Raouf Two generalizations of Titchmarsh's convolution theorem. **90h:42019**
Goodman, T. N. T. (*with* Lee, Seng Luan) Convexity preserving convolution operators. **90j:42033**
Lee, Seng Luan *see* **Goodman, T. N. T., 90j:42033**

Items with secondary classifications in 42A85

Burenkov, V. I. Estimates for Fourier transforms and convolutions in Nikol′skiĭ-Besov spaces. (Russian) **90h:42016**
Domar, Yngve Convolution theorems of Titchmarsh type on discrete **R**^{n}. **90m:43014**
Lepasson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) **90k:40003**
Lyons, Russell Mixing and asymptotic distribution modulo 1. **90d:28019**
Pavlov, E. A. A problem of the factorization of functions in symmetric spaces. **90i:43003**
Rosenblatt, Joseph Determining a distribution from the modulus of its Fourier transform. **90h:46073**

42A99 None of the above, but in this section

Wagner, Gerold Sala On an imbalance problem in the theory of point distribution. **90j:42034**

Items with secondary classifications in 42A99

Krzyż, Jan G. Harmonic analysis and boundary correspondence under quasiconformal mappings. **90k:30034**
Mesropyan, N. Kh. The cosine between the "past" and the "future" of a process. (Russian. English and Armenian summaries) **90f:60077**

42Bxx Fourier analysis in several variables

42B05 Fourier series and coefficients

Andrienko, V. A. The rate of convergence and Cesàro summability of multiple orthogonal series. (Russian. English summary) **90g:42022**
Ash, J. Marshall Uniqueness of representation by trigonometric series. **90k:42021**
Beriša, Muharem Č. Coefficients of double lacunary trigonometric series. (Russian) **90d:42017**
— *see also* **Kastrati, R., 90k:42022**
Bloshanskiĭ, I. L. The structure and geometry of the maximal sets of convergence and of unbounded divergence almost everywhere of multiple Fourier series from L_1 equal to zero on a given set. **90j:42035**
Bugrov, Ya. S. Absolute summability of Fourier transforms, and absolute convergence of multiple Fourier series. **90g:42023**
D′yachenko, M. I. Double Fourier series with monotone coefficients. (Russian) (*see* **90m:00040**)
— Lebesgue constants of Dirichlet kernels of monotone type, and convergence of multiple trigonometric series. **90g:42024**
— Some properties of multiple Fourier series and Fourier transforms. (Russian) **90h:42020**
Gabisoniya, O. D. Points of convergence of multiple Fourier series for some classes of functions. (Russian. English and Georgian summaries) (Not in MR)
Getsadze, R. D. Divergence in measure of general multiple orthogonal Fourier series. **90h:42021**
Grona, V. L. Uniform approximation by spherical Fourier sums on classes of functions that can be defined by polyharmonic operators. **90i:42019**
Jiang, Xun The saturation problem for a class of spherical linear means of multiple Fourier series. (Chinese) **90d:42018**

Kastrati, R. (*with* Beriša, Muharem Č.) Fourier coefficients of lacunary trigonometric double series that belong to $S^\circ H_p^{\varphi_1\varphi_2}$-classes of functions. (Russian. English and Serbo-Croatian summaries) **90k:42022**

Konovalov, S. P. A set of points of absolute convergence of a multiple trigonometric series. (Russian) **90d:42019**

Konyagin, S. V. Divergence with respect to measure of multiple Fourier series. **90b:42025**

— Divergence of a subsequence of partial sums of multiple trigonometric Fourier series. (Russian) **90j:42036**

Kuratsubo, Shigehiko A note on the summability of the Riesz means of multiple Fourier series. **90j:42037**

Li, Yan Nian Absolute convergence of Fourier series of complex functions on $\mathbf{R}^n$. (Chinese. English summary) **90e:42028**

Liu, He Ping *see* **Ma, Bai Lin; et al., 90h:42022**

Lu, Shan Zhen *see* **Ma, Bai Lin; et al., 90h:42022**

Ma, Bai Lin (*with* Liu, He Ping; Lu, Shan Zhen) A norm inequality with power weights for a class of maximal spherical summation operators. (Chinese. English summary) **90h:42022**

Móricz, F. (*with* Waterman, Daniel) Convergence of double Fourier series with coefficients of generalized bounded variation. **90g:42025**

— On double cosine, sine, and Walsh series with monotone coefficients. **90i:42020**

— Integrability of double lacunary sine series. **90m:42020**

Nosenko, Yu. L. Sufficient conditions for the integrability of double trigonometric series. (Russian) (*see* **90d:00046**)

Pavlov, A. P. Absolute convergence of multiple Fourier series. (Russian) (Not in MR)

Petrov, Sergeĭ Vasil′evich Generalization of an example of Steinhaus. (Russian) **90i:42021**

Radzhabov, È. L. Spherical convergence and hypersingular integrals. (Russian. Tajiki summary) **90d:42020**

Roşculeţ, M. N. Research on trigonometric series. X. Double Fourier series associated with a nonintegrable function and singular along a line. (Romanian. French summary) **90k:42023**

Saakyan, A. A. The Bohr theorem for multiple trigonometric series. **90i:42022**

Skopina, M. A. The localization principle for Marcinkiewicz sums in the two-dimensional case. **90f:42011**

Stachowiak-Gniłka, Danuta Representation of functions of the class $\varphi(L)$ by the Faber-Schauder series on $\langle 0,1\rangle^2$. **90b:42026**

Staples, Susan G. L^p-averaging domains and the Poincaré inequality. **90k:42024**

Talalyan, A. A. Uniqueness and integrability of multiple trigonometric series. (Russian) **90h:42023**

Tudor, Gheorghe M. Quelques inégalités sur les polynômes et séries trigonométriques en plusieurs variables. (Romanian summary) [Some inequalities for polynomials and trigonometric series in several variables] **90f:42012**

Vuković, M. On the G_n^κ summability of multiple Fourier series. (Serbo-Croatian summary) **90h:42024**

Wang, Kun Yang Multiple Fourier series and their linear means. (Chinese. English summary) **90g:42026**

Waterman, Daniel *see* **Móricz, F., 90g:42025**

Yudin, V. A. Spherical sums of Fourier series in L_p. **90k:42025**

Zadereĭ, P. V. Convergence of linear means of multiple Fourier series of continuous functions. **90e:42029**

Items with secondary classifications in 42B05

Belinskiĭ, É. S. Approximation of functions of several variables by trigonometric polynomials with given number of harmonics, and estimates of ε-entropy. (Russian summary) **90m:42001**

Grigoryan, M. G. Representation of measurable functions by simple and multiple series in Legendre polynomials. (Russian. English and Armenian summaries) **90c:42007**

Izrailova, M. M. Some theorems of Fatou type for multiple power series. (Russian. Tajiki summary) **90i:30004**

Koch, Per Erik Multivariate trigonometric B-splines. **90d:42004**

Maĭorov, V. E. Trigonometric widths of Sobolev classes. (Russian) (*see* **90d:00046**)

Matos, M. C. On holomorphy in Banach spaces and absolute convergence of Fourier series. **90f:46075**

Rzaev, R. M. Approximation of essentially continuous functions by singular integrals. (Russian) **90h:41024**

Stokolos, A. M. Differentiation of integrals of functions in $L\varphi(L)$. (Russian) (*see* **90d:00046**)

Temirgaliev, N. Approximate reconstruction of functions from values at the nodes of an "algebraic" grid. (Russian. Kazakh summary) **90k:65062**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Bastys, Algirdas J. The generalized localization principle for an N-multiple Fourier integral in classes L_p. **90g:42027**

Beckner, W. (*with* Carbery, Anthony; Semmes, Stephen; Soria, Fernando) A note on restriction of the Fourier transform to spheres. **90i:42023**

Bray, William O. A characterization theorem for the Fourier transform on $\mathbf{R}^n$. **90b:42027**

Bugrov, Ya. S. Summability of Fourier transforms and absolute convergence of multiple Fourier series. (Russian) **90h:42025**

Carbery, Anthony *see* **Beckner, W.; et al., 90i:42023**

Chaudhary, M. S. On the characterization of distributional sine transforms. **90k:42026**

Gabardo, Jean-Pierre Tempered distributions with spectral gaps. **90k:42027**

Guo, Kang Hui On the p-approximate property for hypersurfaces of $\mathbf{R}^n$. **90f:42013**

Gupta, B. L. (*with* Sharma, R. S.) On the absolute convergence of Fourier transform. **90g:42028**

Mattila, Pertti Spherical averages of Fourier transforms of measures with finite energy; dimension of intersections and distance sets. **90a:42009**

Rozovskiĭ, L. V. Asymptotic expansion of the Fourier-Stieltjes transform of finite measure in some neighborhood of zero. **90b:42028**

Rubin, B. S. Fourier analysis of radial-spherical convolutions in $\mathbf{R}^n$. I. (Russian) **90m:42021**

Semmes, Stephen *see* **Beckner, W.; et al., 90i:42023**

Sharma, R. S. *see* **Gupta, B. L., 90g:42028**

Soria, Fernando *see* **Beckner, W.; et al., 90i:42023**

Timotin, Dan C_p-estimates for certain kernels on local fields. **90a:42010**

Zasorin, Yu. V. Symmetry properties of the Fourier-Bessel transform. (Russian) (*see* **90a:00007**)

Items with secondary classifications in 42B10

Akhmedov, Sh. A. Spaces of entire analytic functions that characterize the Fourier transform of certain classes of compactly supported and infinitely differentiable functions. (Russian. Tajiki summary) **90d:46038**

Bugrov, Ya. S. Absolute summability of Fourier transforms, and absolute convergence of multiple Fourier series. **90g:42023**

Christ, Michael Weak type endpoint bounds for Bochner-Riesz multipliers. **90i:42024**

Córdoba, A. Dirac combs. **90m:46063**

Dostál, Miloš (*with* Gaveau, Bernard) Comportement asymptotique de la transformée de Fourier de certains corps convexes. (English summary) [Asymptotic behavior of the Fourier transform of certain convex bodies] **90b:58023**

D′yachenko, M. I. Some properties of multiple Fourier series and Fourier transforms. (Russian) **90h:42020**

Gaveau, Bernard *see* **Dostál, Miloš, 90b:58023**

Grona, V. L. Uniform approximation by spherical Fourier sums on classes of functions that can be defined by polyharmonic operators. **90i:42019**

Hamaker, Charles A range problem for homogeneous, hyperbolic partial differential equations. **90e:35166**

Kuang, Ji Chang Approximation of elliptic Riesz operators on $H^p(T^n)$. (Chinese. English summary) **90g:41052**

Mickleborough, N. C. (*with* Pi, Y. L.) Modal parameter identification using Z-transforms. **90i:93130**

Pi, Y. L. *see* **Mickleborough, N. C., 90i:93130**

42B15 Multipliers

Christ, Michael Weak type endpoint bounds for Bochner-Riesz multipliers. **90i:42024**

Córdoba, A. The disc multiplier. **90j:42038**

Długosz, Jolanta L^p-multipliers for the Laguerre expansions. **90f:42014**

Gosselin, John (*with* Stempak, Krzysztof) A weak-type estimate for Fourier-Bessel multipliers. **90i:42025**

Korobeĭnik, Yu. F. Continuous multipliers of function spaces. (Russian) (*see* **90i:00006**)

Luers, Hajo On Riesz means with respect to a cylindric distance function. **90c:42020**

Rubin, B. S. Multiplier operators and hypersingular integrals that are connected with Cauchy problems for the wave equation. **90m:42022**

Rubio de Francia, José Luis Transference principles for radial multipliers. **90m:42023**

Rustamov, Kh. P. An oscillating multiplier of spherical expansions. (Russian) (*see* **90d:00046**)

Seeger, Andreas Estimates near L^1 for Fourier multipliers and maximal functions. **90j:42039**

Stempak, Krzysztof *see* **Gosselin, John, 90i:42025**

Zadereĭ, N. N. *see* **Zadereĭ, P. V., 90g:42029**

Zadereĭ, P. V. (*with* Zadereĭ, N. N.) Multipliers of uniform convergence of multiple Fourier series of continuous functions. (Russian) **90g:42029**

Zhu, Ke He Multipliers of BMO in the Bergman metric with applications to Toeplitz operators. **90m:42024**

Items with secondary classifications in 42B15

Bloom, Steven Pointwise multipliers of weighted BMO spaces. **90c:42013**

Carbery, Anthony (*with* Rubio de Francia, José Luis; Vega, Luis) Almost everywhere summability of Fourier integrals. **90e:42033**

Fernandez, D. L. On Fourier multipliers of Banach lattice-valued functions. **90k:46083**

Kanjin, Yûichi Convergence almost everywhere of Bochner-Riesz means for radial functions. **90b:42034**

Kapitanskiĭ, L. V. Some generalizations of the Strichartz-Brenner inequality. (Russian) **90h:46063**

Korobeĭnik, Yu. F. Multipliers of weighted function spaces. (Russian. English summary) **90k:46073**

Lepasson, I. On conditions for Cesàro sectional summability and for Cesàro sectional boundedness for spaces of double sequences and Fourier series. (Russian. English summary) **90k:40003**

Nessel, R. J. (*with* van Wickeren, E.) Local multiplier criteria in Banach spaces. **90b:46110**

Oberlin, Daniel M. A linearization of the circular maximal operator. **90j:42048**

Pełczyński, A. Boundedness of the canonical projection for Sobolev spaces generated by finite families of linear differential operators. **90i:46067**

Rubin, B. S. Fourier analysis of radial-spherical convolutions in $\mathbf{R}^n$. I. (Russian) **90m:42021**

Rubio de Francia, José Luis *see* **Carbery, Anthony; et al., 90e:42033**

Shaposhnikova, T. O. Applications of multipliers in S. L. Sobolev spaces to L_p-coercivity of the Neumann problem. **90h:35079**

— Multipliers in the space of Bessel potentials as traces of multipliers in weighted classes. (Russian. English summary) **90k:46077**

Vega, Luis *see* **Carbery, Anthony; et al., 90e:42033**

van Wickeren, E. *see* **Nessel, R. J., 90b:46110**

You, Zhong Results on commutators obtained from weighted norm inequalities. (Chinese. English summary) **90e:47052**

42B20 Singular integrals (Calderón-Zygmund, etc.)

Bak, Jong-Guk (*with* McMichael, David; Vance, James; Wainger, S.) Fourier transforms of surface area measure on convex surfaces in $\mathbf{R}^3$. **90j:42040**

Börjeson, Lennart Regularity of averages over hypersurfaces. **90m:42025**

Bourdaud, Gérard Remarque sur une intégrale singulière de David et Semmes. [Remark on a singular integral of David and Semmes] **90b:42029**

Capri, Osvaldo N. (*with* Segovia, Carlos) Behaviour of L^r-Dini singular integrals in weighted L^1 spaces. **90c:42021**
Chen, Lung-Kee The singular integrals related to the Calderón-Zygmund method of rotations. **90b:42030**
Christ, Michael On the regularity of inverses of singular integral operators. **90c:42022**
— (*with* Rubio de Francia, José Luis) Weak type (1, 1) bounds for rough operators. II. **90d:42021**
— Inversion in some algebras of singular integral operators. **90j:42041**
Coifman, R. (*with* David, Guy René; Meyer, Y.; Semmes, Stephen) ω-Calderón-Zygmund operators. **90k:42028**
David, Guy René Morceaux de graphes lipschitziens et intégrales singulières sur une surface. [Pieces of Lipschitz graphs and singular integrals on a surface] **90h:42026**
— Singular integrals on surfaces. **90h:42027**
— *see also* **Coifman, R.; et al., 90k:42028**
Domínguez, Marisela Weighted inequalities. **90a:42011**
Èfendiev, N. R. Weighted estimates of Magnaradze type for a linear singular integral and their application. (Russian) **90g:42030**
Fefferman, R. Harmonic analysis on product spaces. **90e:42030**
Frazier, M. (*with* Torres, R.; Weiss, Guido) The boundedness of Calderón-Zygmund operators on the spaces $\dot{F}_p^{\alpha,q}$. **90k:42029**
Hofmann, Steve Weighted weak-type (1, 1) inequalities for rough operators. **90f:42015**
— Singular integrals with power weights. **90m:42026**
Hu, Wei Weighted norm inequalities for a class of oscillatory integrals. (Chinese. English summary) **90c:42023**
Journé, Jean-Lin Two problems of Calderón-Zygmund theory on product-spaces. **90b:42031**
Kokilashvili, V. M. Potentials on thin sets. **90m:42027**
Krug, Donald Singular integrals in product domains and the method of rotations. **90f:42016**
Kurtz, Douglas S. Singular integrals on BMO. **90g:42031**
Kuvshinnikova, I. A. Modified hypersingular integrals and their application to operators of potential type with difference radial characteristic. **90k:42030**
Lin, Henry Some weighted inequalities on product domains. **90i:42026**
Liu, Zong Guang Pointwise convergent approximate identities for a class of generalized dilated radially decreasing kernels. (Chinese. English summary) **90k:42031**
Lyakhov, L. N. The Fourier-Bessel transform of a kernel of a singular integral operator that is generated by a generalized shift. (Russian) **90c:42024**
McMichael, David *see* **Bak, Jong-Guk; et al., 90j:42040**
Meyer, Y. *see* **Coifman, R.; et al., 90k:42028**
Mynbaev, K. T. Generalized spherical coordinates and characterization of an anisotropic singular integral. (Russian) (*see* **90h:00003**)
Nakai, Eiichi (*with* Yabuta, Kôzô) Singular integral operators on $L^{p,\Phi}$-spaces. **90i:42027**
Namazi, Javad L^∞-BMO boundedness for a singular integral operator. **90j:42042**
Phong, D. H. (*with* Stein, E. M.) Singular Radon transforms and oscillatory integrals. **90j:42043**
Rabie, S. H. A method of regularization for singular integrals over intervals. (Arabic summary) **90g:42032**
— On multi-dimensional singular integral with integrable density. **90b:42032**
Rubio de Francia, José Luis *see* **Christ, Michael, 90d:42021**
Ruiz Blasco, Francisco José (*with* Torrea Hernández, José Luis) Parabolic differential equations and vector-valued Fourier analysis. **90j:42044**
Rustamov, Kh. P. Best approximation of the symbol of a multidimensional singular integral. (Russian) **90a:42012**
Sampson, G. Local estimates that lead to weighted estimates for oscillating kernels in two dimensions. **90g:42033**
Segovia, Carlos *see* **Capri, Osvaldo N., 90c:42021**
Semmes, Stephen *see* **Coifman, R.; et al., 90k:42028**
Sharpley, Robert (*with* Shim, Yong-sun) Singular integrals on C_p^α. **90e:42031**
Shim, Yong-sun *see* **Sharpley, Robert, 90e:42031**
Siudut, Stanisław On the convergence of double singular integrals. **90e:42032**
— A theorem of the Romanovski type for double singular integrals. **90k:42032**
Stein, E. M. *see* **Phong, D. H., 90j:42043**
Thompson, Alan A. A singular Radon transform on RP^3. **90k:42033**
Torrea Hernández, José Luis *see* **Ruiz Blasco, Francisco José, 90j:42044**
Torres, R. *see* **Frazier, M.; et al., 90k:42029**
Vance, James *see* **Bak, Jong-Guk; et al., 90j:42040**
Wainger, S. Problems in harmonic analysis related to curves and surfaces with infinitely flat points. **90j:42045**
— *see also* **Bak, Jong-Guk; et al., 90j:42040**
Weiss, Guido *see* **Frazier, M.; et al., 90k:42029**
Yabuta, Kôzô Sharp function estimates for oscillatory singular integrals. **90i:42028**
— *see also* **Nakai, Eiichi, 90i:42027**
Zhu, Xue Xian Boundedness of singular integral operators on $H^1(\mathbf{R}^2_+ \times \mathbf{R}^2_+)$. (Chinese) **90j:42046**

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Bennett, Andrew G. The T1 theorem for martingales. **90f:60096**
Coifman, R. (*with* Jones, Peter Wilcox; Semmes, Stephen) Two elementary proofs of the L^2 boundedness of Cauchy integrals on Lipschitz curves. **90k:42017**
Fofana, Ibrahim Continuité de l'intégrale fractionnaire et espace $(L^q, l^p)^\alpha$. (English summary) [Continuity of the fractional integral and $(L^q, l^p)^\alpha$-spaces] **90m:26014**
Frazier, M. (*with* Han, Y.-S.; Jawerth, B.; Weiss, Guido) The $T1$ theorem for Triebel-Lizorkin spaces. **90j:46035**
Han, Y.-S. *see* **Frazier, M.; et al., 90j:46035**
Jawerth, B. *see* **Frazier, M.; et al., 90j:46035**
Jones, Peter Wilcox *see* **Coifman, R.; et al., 90k:42017**
Juberg, R. K. Errata to the paper: "Certain singular integral operators revisited" [Appl. Anal. 27 (1988), no. 1-3, 125–132; MR 89f:47077]. **90k:47106**
Knopf, Peter M. Mapping properties of the Szegő operator for the bidisc. **90b:32013**
Kurokawa, Takahide Weighted norm inequalities for Riesz potentials. **90j:26022**
Kurtz, Douglas S. Operator estimates using the sharp function. **90g:42036**

Lohoue, Noël Remarques sur les intégrales singulières sur les variétés à courbure non positive. (English summary) [Remarks on singular operators on non-positively curved Riemannian manifolds] **90e:58151**
Luo, Cheng Weighted norm inequalities in Lorentz spaces with weights. (Chinese) **90i:46064**
Meyer, Y. Wavelets and operators. **90i:42043**
Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. **90m:31010**
Nogin, V. A. A method for the inversion and description of Bessel potentials with L_p-densities. (Russian) **90g:46055**
— Application of hypersingular integrals to the description of weighted spaces of differentiable functions. (Russian) **90k:46074**
Ohtsuka, Makoto On weighted extremal length of families of curves. **90b:31009**
Peng, Li Zhong Multilinear singular integrals of Schatten-von Neumann class S_p. **90a:47131**
Ricci, Fulvio (*with* Stein, E. M.) Harmonic analysis on nilpotent groups and singular integrals. III. Fractional integration along manifolds. **90m:22027**
Rochberg, Richard (*with* Semmes, Stephen) End point results for estimates of singular values of singular integral operators. **90j:47069**
Rubin, B. S. Multiplier operators and hypersingular integrals that are connected with Cauchy problems for the wave equation. **90m:42022**
Seeger, Andreas Estimates near L^1 for Fourier multipliers and maximal functions. **90j:42039**
Segovia, Carlos (*with* Torrea Hernández, José Luis) Vector-valued commutators and applications. **90k:47067**
Semmes, Stephen *see* **Rochberg, Richard, 90j:47069** *and* **Coifman, R.; et al., 90k:42017**
Shi, Xian Liang A class of singular integral operators—developments and problems. (Chinese. English summary) **90b:47093**
Stein, E. M. *see* **Ricci, Fulvio, 90m:22027**
Tchamitchian, Ph. Ondelettes et intégrale de Cauchy sur les courbes lipschitziennes. (English summary) [Wavelets and the Cauchy integral on Lipschitz curves] **90h:42048**
Torrea Hernández, José Luis *see* **Segovia, Carlos, 90k:47067**
Wang, Tian Xi Three-dimensional filtering of the Hilbert transform. (Chinese) (Not in MR)
Weiss, Guido *see* **Frazier, M.; et al., 90j:46035**
Wilson, J. Michael Weighted inequalities for the square function. **90f:42021**

42B25 Maximal functions, Littlewood-Paley theory

Andersen, Kenneth F. Weighted inequalities for maximal functions in spaces of homogeneous type with applications to nonisotropic fractional integrals. **90i:42029**
Ariño, Miguel A. (*with* Muckenhoupt, Benjamin) Maximal functions on classical Lorentz spaces and Hardy's inequality with weights for nonincreasing functions. **90k:42034**
Bañuelos, Rodrigo (*with* Moore, Charles N.) Laws of the iterated logarithm, sharp good-λ inequalities and L^p-estimates for caloric and harmonic functions. **90k:42035**
— (*with* Moore, Charles N.) Sharp estimates for the nontangential maximal function and the Lusin area function in Lipschitz domains. **90i:42030**
Bourgain, J. A remark on the maximal function associated to an analytic vector field. **90h:42028**
Bruna, Joaquim On the size of the maximal function and of the Hilbert transform. **90h:42029**
Capri, Osvaldo N. (*with* Gutiérrez, Cristian E.) Weighted inequalities for a vector-valued strong maximal function. **90g:42034**
Carbery, Anthony (*with* Rubio de Francia, José Luis; Vega, Luis) Almost everywhere summability of Fourier integrals. **90e:42033**
— Covering lemmas revisited. **90d:42022**
Carton-Lebrun, C. (*with* Heinig, H. P.) Weighted norm inequalities involving gradients. **90g:42035**
Chen, Jie Cheng Some notes on maximal operators. (Chinese. English summary) **90k:42036**
Chen, Lung-Kee The maximal operators related to the Calderón-Zygmund method of rotations. **90e:42034**
Chiarenza, Filippo (*with* Frasca, Michele) Morrey spaces and Hardy-Littlewood maximal function. **90f:42017**
Dzhvarsheĭshvili, A. G. Nontangential maximal functions for biharmonic functions. (Russian) **90e:42035**
Fefferman, R. A^p weights and singular integrals. **90b:42033**
Franciosi, Michelangelo Weighted rearrangements and higher integrability results. **90e:42036**
Frasca, Michele *see* **Chiarenza, Filippo, 90f:42017**
Gallardo Gómez, Diego Weighted weak type integral inequalities for the Hardy-Littlewood maximal operator. **90k:42037**
Gutiérrez, Cristian E. *see* **Capri, Osvaldo N., 90g:42034**
Ha, Young-Hwa L^2-boundedness of spherical maximal operators with multidimensional parameter sets. **90e:42037**
Hare, Kathryn E. (*with* Klemes, Ivo) Properties of Littlewood-Paley sets. **90f:42018**
Heinig, H. P. *see* **Carton-Lebrun, C., 90g:42035**
Kanjin, Yûichi Convergence almost everywhere of Bochner-Riesz means for radial functions. **90b:42034**
Klemes, Ivo *see* **Hare, Kathryn E., 90f:42018**
Kokilashvili, V. M. Singular integrals in weighted Orlicz classes. (Russian. English summary) **90m:42028**
Krbec, Miroslav Two-weight estimates for a maximal operator. (Russian) **90m:42029**
Krotov, V. G. Estimates for maximal operators that are connected with boundary behavior, and their applications. (Russian) **90h:42030**
Kurtz, Douglas S. Operator estimates using the sharp function. **90g:42036**
Margulis, Vladimir Arkadievich A maximal function along monotone curves. (Russian) (*see* **90h:00005**)
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Miyachi, Akihiko Maximal functions for distributions on open sets. **90k:42038**

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42C05 Orthogonal functions and polynomials, general theory [see also 33A65]

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Atzmon, Aharon n-orthonormal operator polynomials. (*see* **90k:41001**)
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Lerer, L. *see* **Gohberg, I.,** (**90k:41001**)

Letessier, Jean *see* **Ismail, Mourad E. H.; et al., 90b:33022** *and* **90j:33010**

Li, Tsu T'ien (*with* Chang, Yih Fong) Solutions of convolution integral and integral equations via double general orthogonal polynomials. **90b:45029**

López Lagomasino, Guillermo (*with* Rakhmanov, E. A.) Rational approximations, orthogonal polynomials and equilibrium distributions. **90d:41028**

Lubinsky, D. S. ★ Strong asymptotics for extremal errors and polynomials associated with Erdős-type weights. **90e:41014**

Madhekar, H. C. Integral involving products of several biorthogonal polynomials. **90d:33007**

Marcellán, Francisco (*with* Pérez Grasa, I.) The moment problem on equipotential curves. **90f:30042**

— (*with* Rodriguez, Isabel) A class of matrix orthogonal polynomials on the unit circle. **90i:30009**

— *see also* **Cachafeiro López, Ma. Alicia, 90b:30004**

Maroni, Pascal L'orthogonalité de dimension d de certains polynômes orthogonaux "classiques" de dimension deux. [d-dimensional orthogonality of certain two-dimensional "classical" orthogonal polynomials] **90h:33026**

Máté, Attila (*with* Nevai, Paul) Factorization of second-order difference equations and its application to orthogonal polynomials. **90d:39002**

Nevai, Paul (*with* Totik, V.) Orthogonal polynomials and their zeros. **90i:33021**

— *see also* **Máté, Attila, 90d:39002**

Njåstad, Olav Multipoint Padé approximation and orthogonal rational functions. **90k:30005**

— Contractive Laurent fractions and nested discs. **90e:30035**

Peherstorfer, Franz Linear combinations of orthogonal polynomials generating positive quadrature formulas. **90j:65043**

Pérez Grasa, I. *see* **Marcellán, Francisco, 90f:30042**

Rakhmanov, E. A. *see* **López Lagomasino, Guillermo, 90d:41028**

Rashid, Muneer A. Recurrence relations for two-center harmonic oscillator integrals and their solutions using generating functions. **90d:81036**

Ricci, Paolo Emilio Hankel-Gram determinants and recurrence calculation for systems of orthonormal polynomials. (Italian. English summary) **90c:33024**

Rodriguez, Isabel *see* **Marcellán, Francisco, 90i:30009**

Saakyan, A. A. *see* **Kashin, B. S., 90g:42001**

Salimov, Ya. Sh. Riesz means of expansions in eigenfunctions of nonselfadjoint extensions of the Laplace operator. (Russian) **90j:35154**

Schwartz, Alan L. *see* **Connett, William C., 90h:33022** *and* **90k:43007**

(Silver, Ben) *see* **Kashin, B. S., 90g:42001**

Stahl, Herbert nth-root asymptotics of orthonormal polynomials and nondiagonal Padé approximants. **90f:40003**

Totik, V. *see* **Nevai, Paul, 90i:33021**

Valent, Galliano *see* **Ismail, Mourad E. H.; et al., 90b:33022** *and* **90j:33010**

Van Assche, Walter Orthogonal polynomials: bounded versus unbounded spectrum. **90g:41047**

Vigil, Luis *see* **Alfaro, Ma. Pilar, 90i:30015**

Wang, Zhong De Generalization of direct product and generation of sets of orthogonal functions. **90k:15004**

Items listed otherwise than by author

Orthogonal matrix-valued polynomials and applications ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**

Seminar:

Operator Theory ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**

Tel Aviv ★ Orthogonal matrix-valued polynomials and applications. **90k:41001**

42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)

Arutyunyan, R. V. Estimates for the rate of maximum convergence of Fourier-Laguerre series in a canonical domain. (Russian) **90f:42023**

Baĭarstanova, A. S. $(C,1)$-summability of partial sums of Fourier-Walsh series. (Russian) **90f:42024**

Bashmakova, I. B. (*with* Skopina, M. A.) A Tauberian theorem for Fourier-Legendre series. **90i:42038**

Belingeri, Carlo Analyticity and quasi-analyticity derived from the behavior of the coefficients of Jacobi-Fourier series expansions. (Italian. English summary) **90f:42025**

Bochkarev, S. V. Bases in function spaces and the Franklin system. (Russian) **90h:42039**

Bogmér, A. Generalization of a theorem of G. Alexits. **90h:42040**

Bojanić, R. (*with* Divis, Z.) Asymptotic behavior of partial sums of Fourier-Legendre series. **90e:42045**

Divis, Z. *see* **Bojanić, R., 90e:42045**

Gaponova, I. T. (*with* Klokov, Yu. A.) Some transformations of the argument in Chebyshev series. (Russian) **90i:42039**

Gevorkyan, G. G. Theorems on the modified Franklin-Stromberg system. (Russian. English and Armenian summaries) **90k:42046**

— Absolute and unconditional convergence of series in the Franklin system. (Russian) **90g:42051**

— Uniqueness of series in the Franklin system. **90m:42035**

— Some theorems on unconditional convergence and a majorant of Franklin series, and their application to the spaces Re H_p. **90j:42061**

— Some theorems on unconditional convergence and the majorant of Franklin series and their application to the spaces ReH_p. (Russian) **90i:42040**

Grubb, D. J. U-sets in compact, 0-dimensional, metric groups. **90g:42052**

Guadalupe Hernández, José Javier (*with* Pérez, Mario; Varona, Juan L.) Mean and weak convergence of some orthogonal Fourier expansions by using A_p theory. **90j:42062**

Joó, István On some problems of M. Horváth (saturation theorems for Walsh-Fourier expansions). **90i:42041**

Kanjin, Yûichi A local property of absolutely convergent Laguerre polynomial series. **90m:42036**

Khare, Satya Prakash (*with* Singh, Peetam) Degree of approximation by generalised Nörlund means of the Fourier-Laguerre expansion. **90g:42053**

— *see also* **Singh, Amar Nath, 90e:42048**

Klokov, Yu. A. *see* **Gaponova, I. T., 90i:42039**

Kováčik, Ondrej Majorants of partial sums of Fourier series in the Haar system. (Slovak. English, German and Russian summaries) **90a:42017**

Lukomskiĭ, S. F. Sets of uniqueness for lacunary Walsh series. (Russian) (*see* **90d:00046**)

— Some classes of sets of uniqueness of multiple Walsh series. (Russian) **90h:42041**

Mallat, Stephane G. Multiresolution approximations and wavelet orthonormal bases of $L^2(\mathbf{R})$. **90e:42046**

Maslov, A. V. An analogue of the Riesz-Fischer theorem for the Haar and Franklin systems in the spaces L_p. (Russian) (*see* **90d:00046**)

Meyer, Y. Ondelettes, fonctions splines et analyses graduées. [Wavelets, spline functions and graduated analyses] **90e:42047**

Nurpeisov, R. Zh. On the uniform $(C,1)$-summability of Fourier series and integrability of series with respect to multiplicative orthonormal systems. (Russian summary) **90m:42037**

Osipov, V. B. A property of a basis in the Haar system in $\mathscr{L}_1[0,1]$. (Russian) **90d:42028**

Ovsepyan, R. I. Some uniqueness theorems for the Haar system and centered systems of continuous functions. (Russian. English and Armenian summaries) **90j:42063**

Pandey, B. N. (*with* Tripathi, L. M.) A study of Legendre series by uniform Nörlund summability method. **90g:42054**

Pérez, Mario *see* **Guadalupe Hernández, José Javier; et al., 90j:42062**

Robakidze, M. G. Fourier coefficients of absolutely continuous functions in the Haar system. (Russian. English and Georgian summaries) (Not in MR)

Saeki, Sadahiro Some applications of Khintchin's inequalities. **90k:42047**

Sedletskiĭ, A. M. Convergence of anharmonic Fourier series in systems of exponentials, cosines and sines. **90f:42026**

Shcherbakov, V. I. A test of convergence of Fourier series with respect to multiplicative systems, analogous to the Jordan test. (Russian summary) **90h:42042**

Shergin, Yu. V. Fourier projectors onto the linear spans of Haar subsystems in the space $L^1[0,1]$. **90m:42038**

Siddiqi, A. H. Approximation by Walsh series. **90d:42029**

Simonyan, A. S. Series in the Walsh system. (Russian) (*see* **90m:00040**)

Singh, Amar Nath (*with* Khare, Satya Prakash) Degree of approximation by Cesàro-Nörlund means of the Fourier-Laguerre expansion. **90e:42048**

Singh, Peetam *see* **Khare, Satya Prakash, 90g:42053**

Skopina, M. A. *see* **Bashmakova, I. B., 90i:42038**

Skvortsov, V. A. (*with* Talalyan, A. A.) Some problems of the uniqueness of multiple series in the Haar system and a trigonometric system. **90j:42064**

Sommer, Manfred (*with* Strauss, Hans) Descartes systems in Haar subspaces. (*see* **90a:41001**)

Strauss, Hans *see* **Sommer, Manfred,** (**90a:41001**)

Suetin, P. K. ★ Ортогональные многочлены по двум переменным. (Russian) [Orthogonal polynomials in two variables] **90g:42055**

Suetin, V. Yu. On the rate of strong summability of Walsh-Fourier series for g-continuous functions in the class $\mathrm{Lip}_g\alpha$, $0<\alpha\le 1$. (Russian) (*see* **90m:00015**)

Sulaiman, W. T. On absolute Nörlund summability of Laplace series. **90g:42056**

Talalyan, A. A. *see* **Skvortsov, V. A., 90j:42064**

Tang, Guo Xi Walsh characteristic functions and moments. (Chinese. English summary) **90b:42039**

Tateoka, Jun On some inequalities for Walsh-Fourier series. **90c:42034**

Thangavelu, S. Multipliers for Hermite expansions. **90h:42043**

Tripathi, L. M. *see* **Pandey, B. N., 90g:42054**

Varona, Juan L. *see* **Guadalupe Hernández, José Javier; et al., 90j:42062**

Young, Wo-Sang Almost everywhere convergence of Vilenkin-Fourier series of H^1 functions. **90g:42057**

Zotikov, S. V. Representation of functions by their Fourier-Haar integrals. (Russian) (*see* **90m:00015**)

Items with secondary classifications in 42C10

Arutyunyan, R. V. Maximal convergence of Fourier-Jacobi series. (Russian. Armenian summary) **90g:42043**
Askey, Richard Divided difference operators and classical orthogonal polynomials. **90h:33020**
Dunkl, Charles F. Differential-difference operators associated to reflection groups. **90k:33027**
Figiel, Tadeusz On equivalence of some bases to the Haar system in spaces of vector-valued functions. (Russian summary) **90i:46070**
Gevorkyan, G. G. On coefficients of null-series and on sets of uniqueness of trigonometric and Walsh systems. (Russian summary) **90c:42017**
Grossmann, A. Wavelet transforms and edge detection. **90a:92008**
Jaffard, S. (*with* Meyer, Y.) Les ondelettes. [Wavelets] **90j:42065**
Khare, Satya Prakash (*with* Tripathi, Virendra Kumar) Matrix summability of Jacobi series. **90j:40003**
Levizov, S. V. A central limit theorem for the Walsh system. (Russian) (*see* **90d:00046**)
Markett, Clemens Product formulas and convolution structure for Fourier-Bessel series. **90i:33012**
Meyer, Y. Constructions de bases orthonormées d’ondelettes. [Constructions of orthonormal bases of wavelets] **90g:42060**
— *see also* **Jaffard, S., 90j:42065**
Mo, Ye The Hadamard product of Legendre series. **90i:30006**
Pratsevityĭ, N. V. Singular distributions of Cantor and Salem types. (Russian) **90b:28010**
Singh, K. N. On the uniform Nörlund summability of Legendre series. **90c:40008**
Stachowiak-Gniłka, Danuta Representation of functions of the class $\varphi(L)$ by the Faber-Schauder series on $\langle 0,1\rangle^2$. **90b:42026**
Tazabekov, S. Embedding theorems and inequalities of various metrics for best approximations in a system of Haar type. (Russian) (*see* **90h:00003**)
Tortrat, Pierre Polynômes orthogonaux. (English summary) [Orthogonal polynomials] **90b:42037**
Tripathi, Virendra Kumar *see* **Khare, Satya Prakash, 90j:40003**

42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions

d’Alessandro, C. *see* **Liénard, J. S., (90g:42062)**
Andrienko, V. A. Summability of orthogonal series by Cesàro methods of negative order. **90k:42048**
Auscher, P. Wavelets on chord-arc curves. (*see* **90g:42062**)
Avdonin, S. A. (*with* Joó, István) Riesz bases of exponentials and sine-type functions. **90g:42058**
Basdevant, C. *see* **Perrier, V., 90j:42067**
Belov, A. S. Divergent series in weakly multiplicative systems of functions. (Russian) (*see* **90i:00006**)
Benedetto, J. J. Gabor representations and wavelets. **90h:42044**
Berkson, Earl On the decay properties of the Franklin analyzing wavelet. (French summary) **90f:42027**
Bojanić, R. An estimate for the rate of convergence of a general class of orthogonal polynomial expansions of functions of bounded variation. **90a:42018**
Bokaev, N. A. $U(\varepsilon)$-sets of a complete measure for multiplicative orthonormal systems. (Russian) (*see* **90m:00040**)
Coifman, R. Wavelet analysis and signal processing. (*see* **90j:94005**)
(Combes, J. M.) *see* **Wavelets, 90g:42062**
Daubechies, Ingrid Orthonormal bases of compactly supported wavelets. **90m:42039**
— Orthonormal bases of wavelets with finite support—connection with discrete filters. (*see* **90g:42062**)
Grossmann, A. (*with* Kronland-Martinet, R.; Morlet, J.) Reading and understanding continuous wavelet transforms. (*see* **90g:42062**)
— *see also* **Wavelets, 90g:42062**
Holschneider, M. Wavelet analysis on the circle. **90m:42040**
Jaffard, S. (*with* Meyer, Y.) Les ondelettes. [Wavelets] **90j:42065**
— Construction of wavelets on open sets. (*see* **90g:42062**)
Joó, István *see* **Avdonin, S. A., 90g:42058**
Karagulyan, G. A. Divergence of double Fourier series in complete orthonormal systems. (Russian. English and Armenian summaries) **90i:42042**
Kogan, D. A. A comparison of summation processes with the Riesz process in Banach spaces. (Russian. English summary) **90g:42059**
Kronland-Martinet, R. *see* **Grossmann, A.; et al., (90g:42062)**
Lemarie, Pierre Gilles Base d’ondelettes sur les groupes de Lie stratifiés. (English summary) [Basis of wavelets on stratified Lie groups] **90j:42066**
Li, Jia Liang Random nonharmonic Fourier series. (Chinese. English summary) **90h:42045**
Liénard, J. S. (*with* d’Alessandro, C.) Wavelets and granular analysis of speech. (*see* **90g:42062**)
Meyer, Y. Constructions de bases orthonormées d’ondelettes. [Constructions of orthonormal bases of wavelets] **90g:42060**
— Wavelets and operators. **90i:42043**
— Orthonormal wavelets. (*see* **90g:42062**)
— Ondelettes, filtres miroirs en quadrature et traitement numérique de l’image. [Wavelets, quadratic mirror filters and image processing] **90h:42046**
— *see also* **Jaffard, S., 90j:42065**
Mirmukhamedov, S. M. A condition of Salem type for rearranged multiplicative systems. (Russian. Tajiki summary) **90k:42049**
Móricz, F. (*with* Szalay, I.) Absolute summability of double orthogonal series. **90f:42028**
Morlet, J. *see* **Grossmann, A.; et al., (90g:42062)**
Perrier, V. (*with* Basdevant, C.) Periodical wavelet analysis, a tool for inhomogeneous field investigation. Theory and algorithms. **90j:42067**
Sedletskiĭ, A. M. Analytic functions in nonharmonic Fourier analysis. (Russian. Serbo-Croatian summary) **90m:42041**
Seip, K. Mean value theorems and concentration operators in Bargmann and Bergman space. (*see* **90g:42062**)
Sereda, Yu. F. Convergence in Fourier series in an orthogonal system of functions. **90g:42061**
Skvortsov, V. A. Series in multiplicative systems, and generalized integrals. (Russian) (*see* **90i:00006**)
Sogge, C. D. Remarks on L^2 restriction theorems for Riemannian manifolds. **90h:42047**
Szalay, I. *see* **Móricz, F., 90f:42028**
Tchamitchian, Ph. Ondelettes et intégrale de Cauchy sur les courbes lipschitziennes. (English summary) [Wavelets and the Cauchy integral on Lipschitz curves] **90h:42048**
— *see also* **Wavelets, 90g:42062**
Zhantlesov, Zh. Kh. On the order of approximation of functions by Zygmund means of Fourier series in a multiplicative system. (Russian) (*see* **90h:00003**)

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Conference:
Wavelets ★ Wavelets. **90g:42062**
Marseille ★ Wavelets. **90g:42062**
Wavelets ★ Wavelets. **90g:42062**

Items with secondary classifications in 42C15

Arneodo, A. (*with* Grasseau, G.; Holschneider, M.) Wavelet transform analysis of invariant measures of some dynamical systems. (*see* **90g:42062**)
Berthon, A. Operator groups and ambiguity functions in signal processing. (*see* **90g:42062**)
Bertrand, Jacqueline (*with* Bertrand, P.) Time-frequency representations of broad-band signals. (*see* **90g:42062**)
Bertrand, P. *see* **Bertrand, Jacqueline, (90g:42062)**
Bros, J. Holomorphic integral representations for the solutions of the Helmholtz equation. (*see* **90g:42062**)
Déniel, Yves On the a.s. Cesàro-α convergence for stationary or orthogonal random variables. **90h:28017**
Feinsilver, Philip Lie algebras and recurrence relations. I. **90d:33009**
Flandrin, Patrick Some aspects of nonstationary signal processing with emphasis on time-frequency and time-scale methods. (*see* **90g:42062**)
Golightly, George O. Coefficients in sine series expansions of special entire functions. **90a:30077**
Grasseau, G. *see* **Arneodo, A.; et al., (90g:42062)**
Grossmann, A. (*with* Holschneider, M.; Kronland-Martinet, R.; Morlet, J.) Detection of abrupt changes in sound signals with the help of wavelet transforms. **90f:94009**
Hanusse, P. An algorithm for fast imaging of wavelet transforms. (*see* **90g:42062**)
Holschneider, M. (*with* Kronland-Martinet, R.; Morlet, J.; Tchamitchian, Ph.) A real-time algorithm for signal analysis with the help of the wavelet transform. (*see* **90g:42062**)
— *see also* **Grossmann, A.; et al., 90f:94009** *and* **Arneodo, A.; et al., (90g:42062)**
Jaffard, S. Exposants de Hölder en des points donnés et coefficients d’ondelettes. (English summary) [Hölder exponents at given points and wavelet coefficients] **90k:46163**
— (*with* Meyer, Y.) Bases d’ondelettes dans des ouverts de $\mathbf{R}^n$. [Wavelet bases in open sets in $\mathbf{R}^n$] **90k:46164**
Kon, M. A. (*with* Ramm, Alexander G.; Raphael, L. A.) Applications of operator approximation to Fourier analysis. **90h:47028**
Kronland-Martinet, R. *see* **Grossmann, A.; et al., 90f:94009** *and* **Holschneider, M.; et al., (90g:42062)**
Mel′nik, Yu. I. Direct theorems for the approximation of functions that are regular in convex polygons by exponential polynomials in an integral metric. **90e:30040**
Meyer, Y. *see* **Jaffard, S., 90k:46164**
Morlet, J. *see* **Grossmann, A.; et al., 90f:94009** *and* **Holschneider, M.; et al., (90g:42062)**
Murenzi, R. Wavelet transforms associated to the n-dimensional Euclidean group with dilations: signal in more than one dimension. (*see* **90g:42062**)
Musielak, Helena On strong Euler absolute φ-summability a.e. of orthonormal series. **90e:42018**
Okuyama, Yasuo On the absolute Riesz summability of orthogonal series. **90g:40004**
Paul, Thierry Wavelets and path integral. (*see* **90g:42062**)
Perrier, V. Towards a method for solving partial differential equations using wavelet bases. (*see* **90g:42062**)
Ramm, Alexander G. *see* **Kon, M. A.; et al., 90h:47028**
Raphael, L. A. *see* **Kon, M. A.; et al., 90h:47028**
Rempulska, Lucyna On the summability of numerical and orthogonal series by the (B,n)-method. **90b:40009**
Sedletskiĭ, A. M. Convergence of anharmonic Fourier series in systems of exponentials, cosines and sines. **90f:42026**
Szalay, I. On the strong Cesàro summability of double orthogonal series. **90b:40013**
Tchamitchian, Ph. About wavelets and elliptic operators. (*see* **90g:42062**)
— *see also* **Holschneider, M.; et al., (90g:42062)**
Tuteur, F. B. Wavelet transformations in signal detection. (*see* **90g:42062**)

42C20 Rearrangements and other transformations of Fourier and other orthogonal series

Bourgain, J. On Kolmogorov’s rearrangement problem for orthogonal systems and Garsia’s conjecture. **90i:42044**
Karagulyan, G. A. Subsystems of convergence of an arbitrary orthonormal system. (Russian **90b:42040**
Révész, Sz. Rearrangements of Fourier series. **90m:42042**

42C25 Uniqueness and localization for orthogonal series

Bokaev, N. A. Sets of uniqueness for a class of orthonormal systems. (Russian) (*see* **90h:00003**)
Skvortsov, V. A. A uniqueness theorem for a multidimensional Haar series. **90f:42029**

Items with secondary classifications in 42C25

Lukomskiĭ, S. F. Some classes of sets of uniqueness of multiple Walsh series. (Russian) **90h:42041**

42C30 Completeness of sets of functions

Joó, István On Riesz bases. **90i:42045**

42C99 None of the above, but in this section

Cunningham, Michael John *see* **Oakley, John Peter; et al., 90k:42050**
Dooley, A. H. A nonabelian version of the Shannon sampling theorem. **90j:42068**
Gukevich, V. I. A Bessel-type inequality and a Parseval-type equality for a system of functions that is almost orthogonal on the entire axis. (Ukrainian. Russian summary) (Not in MR)
Little, Graham *see* **Oakley, John Peter; et al., 90k:42050**
Oakley, John Peter (*with* Cunningham, Michael John; Little, Graham) A Fourier-domain formula for the least-squares projection of a function onto a repetitive basis in N-dimensional space. **90k:42050**
Rochberg, Richard (*with* Taibleson, Mitchell) An averaging operator on a tree. **90i:42046**
Taibleson, Mitchell *see* **Rochberg, Richard, 90i:42046**

43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–01 Elementary exposition; textbooks

Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] **90h:43001**

Items with secondary classifications in 43–01

(Iacob, Andrei) *see* **Lyubich, Yu. I., 90i:22001**
Lyubich, Yu. I. ★ Introduction to the theory of Banach representations of groups. **90i:22001**

43–02 Advanced exposition (research surveys, monographs, etc.)

Gurariĭ, V. P. Group methods of commutative harmonic analysis. (Russian) **90f:43001**
Paterson, Alan L. T. ★ Amenability. **90e:43001**

Items with secondary classifications in 43–02

Geerts, Antonius Henricus Wilhelmus ★ Structure of linear-quadratic control. **90k:49035**
Mackey, George W. Induced representations and the applications of harmonic analysis. **90c:22021**
Mohar, Bojan (*with* Woess, Wolfgang) A survey on spectra of infinite graphs. **90d:05162**
Woess, Wolfgang *see* **Mohar, Bojan, 90d:05162**

43–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 43–03

Pier, Jean-Paul Some views on the evolution of harmonic analysis. **90d:01041**

43–06 Proceedings, conferences, etc.

(Colella, David) *see* **Commutative harmonic analysis, 90a:43001**

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Canton, NY ★ Commutative harmonic analysis. **90a:43001**
Commutative harmonic analysis ★ Commutative harmonic analysis. **90a:43001**
Conference:
Commutative Harmonic Analysis ★ Commutative harmonic analysis. **90a:43001**
Contemporary Mathematics ★ Commutative harmonic analysis. **90a:43001**

Items with secondary classifications in 43–06

(Déchamps-Gondim, Myriam) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
(Loy, R. J.) *see* **Conference: Automatic Continuity and Banach Algebras, 90f:46002**
(Lust-Piquard, Françoise) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
(Queffélec, Hervé) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**

Items listed otherwise than by author

Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Canberra ★ Conference on Automatic Continuity and Banach Algebras. **90f:46002**
Conference:
Automatic Continuity and Banach Algebras ★ Conference on Automatic Continuity and Banach Algebras. **90f:46002**
Harmonic analysis: Working Group on Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Working Group:
Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**

43A05 Measures on groups, semigroups, etc.

Argabright, Loren N. *see* **Gil de Lamadrid, Jesús, 90k:43001**
Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] **90f:43002**
Gil de Lamadrid, Jesús (*with* Argabright, Loren N.) Almost periodic measures. **90k:43001**
Głowacki, Paweł The Rockland condition for nondifferential convolution operators. **90k:43002**
Graham, Colin C. Summary of some results on L^p-improving measures. **90j:43001**
— (*with* Hare, Kathryn E.; Ritter, David L.) The size of L^p-improving measures. **90m:43001**
Hare, Kathryn E. *see* **Graham, Colin C.; et al., 90m:43001**
Heyer, H. Convolution semigroups of local type on a commutative hypergroup. **90k:43003**
Kinzl, Franz Absolutely continuous measures on special semigroups. **90k:43004**
Koshi, Shozo Analytic measure and quasi-invariant measure. (Serbo-Croatian summary) (*see* **90j:30001**)
Maličký, Peter Invariant measures on locally compact spaces and a topological characterization of unimodular Lie groups. (Russian summary) **90i:43001**
Onipchuk, S. V. Idempotent measures on compact semihypergroups. **90m:43002**
Ritter, David L. *see* **Graham, Colin C.; et al., 90m:43001**
Yamaguchi, Hiroshi[2] The F. and M. Riesz theorem on certain transformation groups. **90f:43003**
Zeuner, Hansmartin Properties of the cosh hypergroup. **90k:43005**
— One-dimensional hypergroups. **90i:43002**

Items with secondary classifications in 43A05

Alspach, D. E. (*with* Matheson, Alec L.; Rosenblatt, Joseph) Separating sets by Fourier-Stieltjes transforms. **90m:43022**
Cartwright, Donald I. (*with* Soardi, P. M.) Convergence to ends for random walks on the automorphism group of a tree. **90f:60137**
Derriennic, Y. (*with* Lin, Michael) Convergence of iterates of averages of certain operator representations and of convolution powers. **90h:47020**
Gallardo, Léonard Correction to the article: "Infinitely divisible probability measures on discrete countable commutative hypergroups" [in *Probability measures on groups, VII* (Oberwolfach, 1983), 116–130, Lecture Notes in Math., 1064, Springer, Berlin, 1984; MR 86e:60011] by Gallardo and O. Gebuhrer. (French) **90k:60020**
(Gebuhrer, Olivier) *see* **Gallardo, Léonard, 90k:60020**
Hare, Kathryn E. L^p-improving measures on compact nonabelian groups. **90b:43002**
Kilmer, S. J. (*with* Saeki, Sadahiro) On Riesz product measures; mutual absolute continuity and singularity. (French summary) **90a:42006**
Lin, Michael *see* **Derriennic, Y., 90h:47020**
Matheson, Alec L. *see* **Alspach, D. E.; et al., 90m:43022**
Rosenblatt, Joseph *see* **Alspach, D. E.; et al., 90m:43022**
Saeki, Sadahiro *see* **Kilmer, S. J., 90a:42006**
Soardi, P. M. *see* **Cartwright, Donald I., 90f:60137**
Turnwald, Gerhard Roots of Haar measure and topological Hamiltonian groups. **90m:22012**
Zakrzewski, Piotr On universal semiregular invariant measures. **90a:03074**

43A07 Means on groups, semigroups, etc.

Milnes, Paul (*with* Paterson, Alan L. T.) Ergodic sequences and a subspace of $\mathbf{B}(G)$. **90a:43002**
Nebbia, Claudio Amenability and Kunze-Stein property for groups acting on a tree. **90f:43004**
Paterson, Alan L. T. *see* **Milnes, Paul, 90a:43002**
Sakai, Koukichi Remarks on support filter for invariant means. **90h:43002a**
— On amenable transformation semigroups with countable invariant means. **90h:43002b**
Szwarc, Ryszard A short proof of the Grigorchuk-Cohen cogrowth theorem. **90e:43002**
Woess, Wolfgang Amenable group actions on infinite graphs. **90m:43003**
Yuan, Chuan Kuan Inner invariant means and the regular conjugation representation of $L^1(G)$. **90g:43001**
— A property of locally compact groups. (Chinese. English summary) **90j:43002**
— The theory of amenable groups—an introduction to an approach to abstract harmonic analysis. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 43A07

Argabright, Loren N. *see* **Gil de Lamadrid, Jesús, 90k:43001**
Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. **90m:43023**
Gil de Lamadrid, Jesús (*with* Argabright, Loren N.) Almost periodic measures. **90k:43001**
Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. **90a:46122**
Lau, A. T. (*with* Wong, J. C. S.) Weakly almost periodic elements in $L_\infty(G)$ of a locally compact group. **90m:43006**
— (*with* Paterson, Alan L. T.; Wong, J. C. S.) Invariant subspace theorems for amenable groups. **90g:47007**
Paterson, Alan L. T. ★ Amenability. **90e:43001**
— The class of locally compact groups G for which $C^*(G)$ is amenable. **90m:22019**
— *see also* **Lau, A. T.; et al., 90g:47007**
Wong, J. C. S. *see* **Lau, A. T.; et al., 90g:47007** *and* **90m:43006**

43A10 Measure algebras on groups, semigroups, etc.

Albar, Sahl Fadul Noncommutative convolution measure algebras with no proper L-ideals.

90m:43004
Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) Banach algebras of vector measures. (Spanish. English summary) **90b:43001**
Brown, Gavin (*with* Moran, William) The Raikov convolution measure algebra. **90k:43006**
Candeal, Juan C. *see* **Blasco De La Cruz, Oscar, 90b:43001**
Connett, William C. (*with* Schwartz, Alan L.) Analysis of a class of probability preserving measure algebras on compact intervals. **90k:43007**
Karanikas, C. Wiener pairs of measure algebras. **90k:43008**
Moran, William *see* **Brown, Gavin, 90k:43006**
Schwartz, Alan L. *see* **Connett, William C., 90k:43007**

Items with secondary classifications in 43A10

Argabright, Loren N. *see* **Gil de Lamadrid, Jesús, 90k:43001**
Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) On algebras of vector-valued measures. (Spanish. English summary) **90k:46122**
Candeal, Juan C. *see* **Blasco De La Cruz, Oscar, 90k:46122**
Cesari, Lamberto (*with* Pucci, Patrizia) Remarks on discontinuous optimal solutions for simple integrals of the calculus of variations. **90h:49002**
Ghahramani, F. (*with* Lau, A. T.; Losert, V.) Isometric isomorphisms between Banach algebras related to locally compact groups. **90m:43010**
Gil de Lamadrid, Jesús (*with* Argabright, Loren N.) Almost periodic measures. **90k:43001**
Grabiner, Sandy Homomorphisms and semigroups in weighted convolution algebras. **90f:43007**
Hatori, Osamu *see* **Takahasi, Sin-ei, 90m:46086**
Lau, A. T. *see* **Ghahramani, F.; et al., 90m:43010**
Losert, V. *see* **Ghahramani, F.; et al., 90m:43010**
Pucci, Patrizia *see* **Cesari, Lamberto, 90h:49002**
Takahasi, Sin-ei (*with* Hatori, Osamu) Commutative Banach algebras which satisfy a Bochner-Schoenberg-Eberlein type theorem. **90m:46086**
Zeuner, Hansmartin Properties of the cosh hypergroup. **90k:43005**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Bloom, Walter R. Majorising by Fourier transforms. **90m:43005**
Colzani, Leonardo (*with* Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. **90h:43003b**
Derighetti, Antoine Convoluteurs et projecteurs. [Convolution and projection operators] **90g:43002**
Domar, Yngve Translation-invariant subspaces of weighted L^p. **90f:43005**
Giulini, Saverio (*with* Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. **90h:43003a**
— *see also* **Colzani, Leonardo; et al., 90h:43003b**
Hare, Kathryn E. L^p-improving measures on compact nonabelian groups. **90b:43002**
Lau, A. T. (*with* Wong, J. C. S.) Weakly almost periodic elements in $L_\infty(G)$ of a locally compact group. **90m:43006**
Lust-Piquard, Françoise (*with* Schachermayer, Walter) Functions in $L^\infty(G)$ and associated convolution operators. **90k:43009**
Oberlin, Daniel M. A multilinear Young's inequality. **90b:43003**
Onneweer, C. W. (*with* Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. **90b:43004**
Pavlov, E. A. A problem of the factorization of functions in symmetric spaces. **90i:43003**
Schachermayer, Walter Some translation invariant subspaces of $C(G)$ which have the strong Schur property. (French summary) **90m:43007**
— *see also* **Lust-Piquard, Françoise, 90k:43009**
Su, Wei Yi *see* **Onneweer, C. W., 90b:43004**
Travaglini, Giancarlo *see* **Giulini, Saverio, 90h:43003a** *and* **Colzani, Leonardo; et al., 90h:43003b**
Wong, J. C. S. *see* **Lau, A. T., 90m:43006**
Wysoczański, Janusz Characterization of amenable groups and the Littlewood functions on free groups. **90d:43001**
Yu, Shu Mo The Parseval formula in the harmonic analysis for operator and the support for operators. **90m:43008**

Items with secondary classifications in 43A15

Bade, W. G. (*with* Dales, H. G.) Continuity of derivations from radical convolution algebras. **90k:46115**
Castaing, C. (*with* Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. **90a:46063**
Dales, H. G. *see* **Bade, W. G., 90k:46115**
Delaporte, Jacques Convoluteurs continus et topologie stricte. [Continuous convolution operators and strict topology] **90d:43002**
Geisler, Michael H. G. Besov spaces on compact Lie groups. **90a:46072**
Hare, Kathryn E. (*with* Tomczak-Jaegermann, Nicole) Some Banach space properties of translation invariant subspaces of L^p. **90i:46030**
Jolissaint, Paul Rapidly decreasing functions in reduced C^*-algebras of groups. **90d:22006**
Kamińska, A. *see* **Castaing, C., 90a:46063**
Miyazaki, Hiroshi Central functions on SU(2) with nonnegative Fourier coefficients. **90f:42010**
Picardello, Massimo A. (*with* Pytlik, Tadeusz) Norms of free operators. **90b:47016**
Pytlik, Tadeusz *see* **Picardello, Massimo A., 90b:47016**
Reiter, Hans Metaplectic groups and harmonic analysis. **90g:22006**
Tomczak-Jaegermann, Nicole *see* **Hare, Kathryn E., 90i:46030**
Triebel, H. How to measure smoothness of distributions on Riemannian symmetric manifolds and Lie groups? (German and Russian summaries) **90a:46081**

43A17 Analysis on ordered groups, H^p-theory

Asmar, Nakhlé (*with* Hewitt, Edwin) A generalized Marcel Riesz theorem on conjugate functions. **90h:43004**
Berkson, Earl (*with* Gillespie, T. A.; Muhly, Paul S.) Generalized analyticity in UMD spaces. **90m:43009**
Gillespie, T. A. *see* **Berkson, Earl; et al., 90m:43009**
Hewitt, Edwin *see* **Asmar, Nakhlé, 90h:43004**
Muhly, Paul S. *see* **Berkson, Earl; et al., 90m:43009**

Items with secondary classifications in 43A17

Cambern, Michael (*with* Jarosz, K.) The isometries of $H^1_{\mathcal{X}}$. **90a:46083**
Daly, James E. Factorization of Hardy spaces on local fields. **90a:46049**
Domar, Yngve Convolution theorems of Titchmarsh type on discrete $\mathbf{R}^n$. **90m:43014**
Jarosz, K. *see* **Cambern, Michael, 90a:46083**
Koshi, Shozo Analytic measure and quasi-invariant measure. (Serbo-Croatian summary) (*see* **90j:30001**)
Stankov, Dimcho K. An algebra of functions on the boundary of the generalized unit disk. (Russian) **90m:46089**

43A20 L^1-algebras on groups, semigroups, etc.

Gebuhrer, Olivier (*with* Kumar, Ajay[1]) The Wiener property for a class of discrete hypergroups. **90i:43004**
Ghahramani, F. (*with* Lau, A. T.; Losert, V.) Isometric isomorphisms between Banach algebras related to locally compact groups. **90m:43010**
Grønbæk, Niels Amenability of weighted convolution algebras on locally compact groups. **90j:43003**
Kumar, Ajay[1] *see* **Gebuhrer, Olivier, 90i:43004**
Lau, A. T. *see* **Ghahramani, F.; et al., 90m:43010**
Losert, V. *see* **Ghahramani, F.; et al., 90m:43010**
Willis, G. A. Ultraprime group algebras. **90m:43011**
Yu, Shu Mo Vector-valued pseudomeasures. **90c:43001**

Items with secondary classifications in 43A20

Albar, Sahl Fadul Noncommutative convolution measure algebras with no proper L-ideals. **90m:43004**
Benson, Chal (*with* Jenkins, Joe W.; Ratcliff, Gail) On Gel′fand pairs associated with solvable Lie groups. **90m:22022**
Goodman, T. N. T. (*with* Lee, Seng Luan). Convexity preserving convolution operators. **90j:42033**
Grabiner, Sandy Homomorphisms and semigroups in weighted convolution algebras. **90f:43007**
Jenkins, Joe W. *see* **Benson, Chal; et al., 90m:22022**
Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. **90a:46122**
Karanikas, C. Wiener pairs of measure algebras. **90k:43008**
Lee, Seng Luan *see* **Goodman, T. N. T., 90j:42033**
Maltese, George (*with* Wille, Regina) A characterization of homomorphisms in certain Banach involution algebras. **90a:46146**
Mortini, Raymond (*with* von Renteln, Michael) Some remarkable properties of the Wiener algebra W^+. **90a:46143**
Ratcliff, Gail *see* **Benson, Chal; et al., 90m:22022**
von Renteln, Michael *see* **Mortini, Raymond, 90a:46143**
Wille, Regina *see* **Maltese, George, 90a:46146**

43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

Asmar, Nakhlé (*with* Berkson, Earl; Gillespie, T. A.) Transfert des opérateurs maximaux par des représentations conservant la séparation. (English summary) [Transference of maximal operators by separation-preserving representations] **90f:43006**
Berkson, Earl (*with* Gillespie, T. A.; Muhly, Paul S.) L^p-multiplier transference induced by representations in Hilbert space. **90m:43012**
— *see also* **Asmar, Nakhlé; et al., 90f:43006**
Chang, Tsu Kung *see* **Lai, Han Ch'ing, 90f:43008**
Delaporte, Jacques Convoluteurs continus et topologie stricte. [Continuous convolution operators and strict topology] **90d:43002**
Gillespie, T. A. *see* **Asmar, Nakhlé; et al., 90f:43006** *and* **Berkson, Earl; et al., 90m:43012**
Grabiner, Sandy Homomorphisms and semigroups in weighted convolution algebras. **90f:43007**
Hartman, S. Correction to the paper: "Some problems and remarks on relative multipliers" [Colloq. Math. **54** (1987), no. 1, 103–111; MR 89e:43011]. **90m:43013**
Krawczyk, Jarosław Continuity of operators commuting with translations for compact groups. **90g:43003**
Lai, Han Ch'ing (*with* Chang, Tsu Kung) Multipliers and translation invariant operators. **90f:43008**
Muhly, Paul S. *see* **Berkson, Earl; et al., 90m:43012**
Onneweer, C. W. (*with* Quek, T. S.) H^p multiplier results on locally compact Vilenkin groups. **90k:43010**
Quek, T. S. *see* **Onneweer, C. W., 90k:43010**
Sato, Enji Certain measures on locally compact abelian groups. **90k:43011**
Tewari, U. B. The multiplier problem. **90b:43005**

Items with secondary classifications in 43A22

Asmar, Nakhlé (*with* Hewitt, Edwin) A generalized Marcel Riesz theorem on conjugate functions. **90h:43004**
Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) Banach algebras of vector measures. (Spanish. English summary) **90b:43001**
Bloom, Walter R. Majorising by Fourier transforms. **90m:43005**
Brown, Gavin (*with* Moran, William) The Raikov convolution measure algebra. **90k:43006**
Candeal, Juan C. *see* **Blasco De La Cruz, Oscar, 90b:43001**
Colzani, Leonardo Translation invariant operators on Lorentz spaces. **90a:47077**
Cowling, Michael (*with* Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. **90h:22008**

Derighetti, Antoine Convoluteurs et projecteurs. [Convolution and projection operators] **90g:43002**
De Wilde, M. (*with* Mukila wa Mukila, P.) Relations between the topological properties of homomorphisms of topological locally compact groups and their pull-back on spaces of locally integrable functions. **90m:22013**
Długosz, Jolanta L^p-multipliers for the Laguerre expansions. **90f:42014**
Haagerup, Uffe *see* **Cowling, Michael, 90h:22008**
Hewitt, Edwin *see* **Asmar, Nakhlé, 90h:43004**
Lippus, J. On the preservation of classes of functions. (Russian and Estonian summaries) **90d:42014**
Lust-Piquard, Françoise (*with* Schachermayer, Walter) Functions in $L^\infty(G)$ and associated convolution operators. **90k:43009**
Moran, William *see* **Brown, Gavin, 90k:43006**
Mukila wa Mukila, P. *see* **De Wilde, M., 90m:22013**
Schachermayer, Walter *see* **Lust-Piquard, Françoise, 90k:43009**

43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

Domar, Yngve Convolution theorems of Titchmarsh type on discrete $\mathbf{R}^n$. **90m:43014**
Kawai, Toru A nonstandard representation of Fourier transforms of continuous functions. **90m:43015**
Kolesárová, Anna Fourier transforms of vector-valued measures on certain compact semigroups. (*see* **90a:00026**)
McGehee, O. Carruth Gaussian sums and harmonic analysis on finite fields. **90k:43012**
Ylinen, Kari Commuting functions of the position and momentum observables on locally compact abelian groups. **90f:43009**

Items with secondary classifications in 43A25

Alspach, D. E. (*with* Matheson, Alec L.; Rosenblatt, Joseph) Separating sets by Fourier-Stieltjes transforms. **90m:43022**
Argabright, Loren N. *see* **Gil de Lamadrid, Jesús, 90k:43001**
Chandrasekharan, Komaravolu ★ Classical Fourier transforms. **90c:42001**
Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] **90f:43002**
Gil de Lamadrid, Jesús (*with* Argabright, Loren N.) Almost periodic measures. **90k:43001**
Graham, Colin C. (*with* Hare, Kathryn E.; Ritter, David L.) The size of L^p-improving measures. **90m:43001**
Gurariĭ, V. P. Group methods of commutative harmonic analysis. (Russian) **90f:43001**
Hare, Kathryn E. *see* **Graham, Colin C.; et al., 90m:43001**
Matheson, Alec L. *see* **Alspach, D. E.; et al., 90m:43022**
Ritter, David L. *see* **Graham, Colin C.; et al., 90m:43001**
Rosenblatt, Joseph *see* **Alspach, D. E.; et al., 90m:43022**
Sato, Enji Certain measures on locally compact abelian groups. **90k:43011**
Shekhtman, Boris On a problem of G. G. Lorentz regarding the norms of Fourier projections. **90g:42004**
Ylinen, Kari Commutation properties of observables on locally compact abelian groups. **90d:81025**
Yu, Shu Mo The Parseval formula in the harmonic analysis for operator and the support for operators. **90m:43008**

43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

Price, John F. (*with* Sitaram, Alladi) Functions and their Fourier transforms with supports of finite measure for certain locally compact groups. **90e:43003**
Sitaram, Alladi *see* **Price, John F., 90e:43003**
Ward, J. A. Analytic functions which operate on homogeneous algebras. **90a:43003**
Xu, Zeng Fu Approximation properties of Gauss-Weierstrass type means of Fourier series on compact Lie groups. (Chinese. English summary) **90b:43006**
Ylinen, Kari Completely bounded and related random fields on locally compact groups. **90m:43016**

Items with secondary classifications in 43A30

Arnal, D. (*with* Cahen, M.; Gutt, S.) Exponential and holomorphic discrete series. **90k:22019**
Cahen, M. *see* **Arnal, D.; et al., 90k:22019**
Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. **90m:43023**
Colzani, Leonardo (*with* Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. **90h:43003b**
Giulini, Saverio (*with* Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. **90h:43003a**
— *see also* **Colzani, Leonardo; et al., 90h:43003b**
Gutt, S. *see* **Arnal, D.; et al., 90k:22019**
Kawazoe, Takeshi (*with* Miyazaki, Hiroshi) Fourier series with nonnegative coefficients on compact semisimple Lie groups. **90i:22016**
Miyazaki, Hiroshi *see* **Kawazoe, Takeshi, 90i:22016**
Ressel, Paul A conjecture concerning mixtures of characters from a given closed subsemigroup in the dual. **90m:43017**
Robertson, A. G. Some abelian Banach algebras of operators on the matricial II_1 factor. **90k:46136**
Shahshahani, Mehrdad Poincaré inequality, uncertainty principle, and scattering theory on symmetric spaces. **90g:22017**
Travaglini, Giancarlo *see* **Giulini, Saverio, 90h:43003a** *and* **Colzani, Leonardo; et al., 90h:43003b**
Trukhina, I. P. Estimates of stability of decompositions in the Lamperti semigroup of probability measures on a sphere. **90a:60014**

43A32 Other transforms and operators of Fourier type

Rogov, V.-B. K. The Fourier-Mellin-Whittaker transform on horospheres of homogeneous pseudo-Riemannian symmetric spaces of rank 1. **90f:43010**
Yu, Shu Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) **90i:43005**

Items with secondary classifications in 43A32

Lasser, R. Applications of the theory of hypergroups. **90a:60075**
Vaĭnerman, L. I. Generalized translation operators that are generated by differential equations. **90d:47037**

43A35 Positive definite functions on groups, semigroups, etc.

Ali, H. A. *see* **Okb El-Bab, A. S.; et al., 90h:43006**
Berg, Christian (*with* Sasvári, Zoltán) Functions with a finite number of negative squares on semigroups. **90i:43006**
Bisgaard, Torben M. (*with* Ressel, Paul) Unique disintegration of arbitrary positive definite functions on $*$-divisible semigroups. **90b:43007**
Friedrich, Jürgen (*with* Klotz, L.) On extensions of positive definite operator-valued functions. **90h:43005**
— Integral representations of positive definite matrix-valued distributions on cylinders. **90k:43013**
Klotz, L. *see* **Friedrich, Jürgen, 90h:43005**
Misiewicz, J. K. On norm-dependent positive-definite functions. (Russian. English and Georgian summaries) **90c:43002**
Młotkowski, Wojciech Positive definite functions on free product of groups. (Italian summary) **90i:43007**
Okb El-Bab, A. S. (*with* Zabel, A. M.; Ali, H. A.) Semi-direct product invariant kernels. **90h:43006**
Ressel, Paul Integral representations for distributions of symmetric stochastic processes. **90c:43003**
— A conjecture concerning mixtures of characters from a given closed subsemigroup in the dual. **90m:43017**
— *see also* **Bisgaard, Torben M., 90b:43007**
Romanelli, Silvia A Godement-type decomposition for positive definite functions. **90h:43007**
Sasvári, Zoltán Characterization of locally bounded functions with a finite number of negative squares. **90m:43018**
— On continuity and decomposition of positive definite functions. **90m:43019**
— *see also* **Berg, Christian, 90i:43006**
Thill, Marco Exponentially bounded indefinite functions. **90m:43020**
Walter, Martin E. On a new method for defining the norm of Fourier-Stieltjes algebras. **90e:43004**
Zabel, A. M. *see* **Okb El-Bab, A. S.; et al., 90h:43006**

Items with secondary classifications in 43A35

Arocena, Rodrigo On the extension problem for a class of translation invariant positive forms. **90k:47015**
Atanasiu, Dragu Fonctions moment sur un semi-groupe commutatif. (English summary) [Moment functions on a commutative semigroup] **90i:43009**
El-Shazly, M. S. *see* **Okb El-Bab, A. S., 90c:26049**
Gali, I. M. Positive-definite functions on direct product (sum) of locally compact abelian groups. **90m:22010**
Gurariĭ, V. P. Group methods of commutative harmonic analysis. (Russian) **90f:43001**
Jørgensen, Palle E. T. Positive definite functions on the Heisenberg group. **90m:22024**
Milnes, Paul (*with* Paterson, Alan L. T.) Ergodic sequences and a subspace of $\mathbf{B}(G)$. **90a:43002**
Okb El-Bab, A. S. (*with* El-Shazly, M. S.) Integral representation of negative-definite functions of infinitely many variables. **90c:26049**
Paterson, Alan L. T. *see* **Milnes, Paul, 90a:43002**
Szwarc, Ryszard Matrix coefficients of irreducible representations of free products of groups. **90m:22017**
Tarieladze, V. I. The Fourier topology for infinite-dimensional spaces. (Russian) **90f:46073**
Voit, Michael Positive and negative definite functions on the dual space of a commutative hypergroup. **90m:60012**
Zabel, A. M. Integral representation of generalized invariant reflection positive matrix kernel. **90i:47019**

43A40 Character groups and dual objects

Items with secondary classifications in 43A40

Faĭziev, V. A. Pseudocharacters on free groups and on some group constructions. **90a:20047**
Zeuner, Hansmartin Properties of the cosh hypergroup. **90k:43005**
— The central limit theorem for Chébli-Trimèche hypergroups. **90e:60087**

43A45 Spectral synthesis on groups, semigroups, etc.

Colella, David A Bochner-Herz property in bounded synthesis. **90g:43004**
Kaufman, Robert P. A note on tilde algebras. **90k:43014**
Salinger, D. L. (*with* Stegeman, J. D.) Spectral synthesis and difference spectra. **90a:43004**
Stegeman, J. D. *see* **Salinger, D. L., 90a:43004**
Sutherland, Colin E. L^2 version of Wiener's Tauberian theorem. (French summary) **90m:43021**

Items with secondary classifications in 43A45

Froelich, John Compact operators, invariant subspaces, and spectral synthesis. **90b:47078**
Parreau, François (*with* Weit, Yitzhak) Schwartz's theorem on mean periodic vector-valued functions. (French summary) **90m:32020**
Pennings, Tim (*with* Peters, Justin) Dynamical systems from function algebras. **90f:46086**

Peters, Justin *see* **Pennings, Tim, 90f:46086**
Ward, J. A. Analytic functions which operate on homogeneous algebras. **90a:43003**
Weit, Yitzhak *see* **Parreau, François, 90m:32020**

43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

Alspach, D. E. (*with* Matheson, Alec L.; Rosenblatt, Joseph) Separating sets by Fourier-Stieltjes transforms. **90m:43022**
Bourgain, J. Bounded orthogonal systems and the $\Lambda(p)$-set problem. **90h:43008**
Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. **90m:43023**
Demenko, V. N. On p-Helson sets in $\mathbf{R}^n$. (Russian summary) **90h:43009**
Hare, Kathryn E. Strict-2-associatedness for thin sets. **90c:43004**
Lyons, Russell A new type of sets of uniqueness. **90m:43024**
— Singular measures with spectral gaps. **90b:43008**
Matheson, Alec L. *see* **Alspach, D. E.; et al., 90m:43022**
Queffélec, Hervé Existence de vrais $\Lambda(p)$ d'après J. Bourgain. (English summary) [Existence of true $\Lambda(p)$-sets, following J. Bourgain] **90m:43025**
Rosenblatt, Joseph *see* **Alspach, D. E.; et al., 90m:43022**
Wilson, David Charles A general criterion for the existence of infinite Sidon sets. **90f:43011**

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Colella, David A Bochner-Herz property in bounded synthesis. **90g:43004**
Dougherty, R. (*with* Kechris, Alexander S.) Hausdorff measures and sets of uniqueness for trigonometric series. **90g:42020**
Froelich, John Compact operators, invariant subspaces, and spectral synthesis. **90b:47078**
Grubb, D. J. U-sets in compact, 0-dimensional, metric groups. **90g:42052**
Guo, Kang Hui On the p-approximate property for hypersurfaces of $\mathbf{R}^n$. **90f:42013**
Hare, Kathryn E. (*with* Klemes, Ivo) Properties of Littlewood-Paley sets. **90f:42018**
Hartman, S. Correction to the paper: "Some problems and remarks on relative multipliers" [Colloq. Math. **54** (1987), no. 1, 103–111; MR 89e:43011]. **90m:43013**
Kaufman, Robert P. A note on tilde algebras. **90k:43014**
Kechris, Alexander S. (*with* Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. **90a:42008**
— *see also* **Dougherty, R., 90g:42020**
Kilmer, S. J. Equivalence of Riesz products. **90j:42030**
Klemes, Ivo *see* **Hare, Kathryn E., 90f:42018**
Louveau, Alain *see* **Kechris, Alexander S., 90a:42008**
McGehee, O. Carruth Gaussian sums and harmonic analysis on finite fields. **90k:43012**

43A50 Convergence of Fourier series and of inverse transforms

Berman, D. L. On the existence of a linear polynomial operator on topological groups. (Russian) **90g:43005**
Gajda, Zbigniew Weak difference properties of higher orders for the class $L_p(G)$. **90e:43005**

Items with secondary classifications in 43A50

Ash, J. Marshall Uniqueness of representation by trigonometric series. **90k:42021**
Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. **90c:47068**

43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Platonov, S. S. An analogue of Fejér sums for Fourier series on the group SO(3). (Russian) **90d:43003**

Items with secondary classifications in 43A55

Berman, D. L. On the existence of a linear polynomial operator on topological groups. (Russian) **90g:43005**
Colzani, Leonardo (*with* Giulini, Saverio; Travaglini, Giancarlo) Sharp results for the mean summability of Fourier series on compact Lie groups. **90h:43003b**
Giulini, Saverio (*with* Travaglini, Giancarlo) Central Fourier analysis for Lorentz spaces on compact Lie groups. **90h:43003a**
— *see also* **Colzani, Leonardo; et al., 90h:43003b**
Jenkins, Joe W. Bi-invariant Schwartz multipliers and local solvability on nilpotent Lie groups. **90d:22010**
Travaglini, Giancarlo *see* **Giulini, Saverio, 90h:43003a** *and* **Colzani, Leonardo; et al., 90h:43003b**
Weit, Yitzhak An asymptotic characterization of harmonic functions. **90d:31012**

43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Chou, Ching Almost periodic operators in VN(G). **90d:43004**
Sakai, Koukichi On almost periodic compactifications of semitopological semigroups. **90m:43026**

Items with secondary classifications in 43A60

Chou, Ching Weakly almost periodic functions and thin sets in discrete groups. **90m:43023**
Gorbis, A. Z. (*with* Tempel′man, A. A.) The averaging of almost periodic functions and of finite-dimensional unitary representations on free groups. **90m:22015**
Iwanik, A. Weyl almost periodic points in topological dynamics. **90i:54086**
Karakhanyan, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) **90f:22004**
Kurbatov, V. G. Invertibility of almost periodic operators. (Russian) **90m:47048**
Lyubich, Yu. I. *see* **Vũ Quốc Phóng, 90e:22004**
Osipov, V. F. ★ Анализ Бора-Фурье на локально компактных коммутативных группах. (Russian) [Bohr-Fourier analysis on locally compact commutative groups] **90h:43001**
Tempel′man, A. A. *see* **Gorbis, A. Z., 90m:22015**
Vũ Quốc Phóng (*with* Lyubich, Yu. I.) A spectral criterion for asymptotic almost periodicity for uniformly continuous representations of abelian semigroups. (Russian) **90e:2200**

43A65 Representations of groups, semigroups, etc. [see also 22Dxx]

Pavel, Liliana Sur certaines propriétés des représentations induites des hypergroupes. [On certain properties of induced hypergroup representations] **90c:43005**

Items with secondary classifications in 43A65

Aliev, G. B. (*with* Mamedov, A. A.) The reduction from $\mathrm{SL}(2,\mathbf{C}) \supset \mathrm{SL}(2,\mathbf{R})$ of representations of the complementary series. (Russian. English and Azerbaijani summaries) **90c:22043**
Baggett, Larry On the notion of virtual amenability for groups. **90b:22007**
Berkson, Earl (*with* Gillespie, T. A.; Muhly, Paul S.) Generalized analyticity in UMD spaces. **90m:43009**
Carey, A. L. (*with* Palmer, John) Infinite complex spin groups. **90e:22032**
Faraut, J. (*with* Strasburger, Aleksander) Vecteurs de Whittaker et fonctions horisphériques. (English summary) [Whittaker vectors and horospherical functions for real hyperbolic spaces] **90b:22015**
Gillespie, T. A. *see* **Berkson, Earl; et al., 90m:43009**
Karakhanyan, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) **90f:22004**
Mamedov, A. A. *see* **Aliev, G. B., 90c:22043**
Muhly, Paul S. *see* **Berkson, Earl; et al., 90m:43009**
Palmer, John *see* **Carey, A. L., 90e:22032**
Rindler, Harald Groups of measure preserving transformations. II. **90a:28024**
Ruess, W. M. (*with* Summers, W. H.) Integration of asymptotically almost periodic functions and weak asymptotic almost periodicity. **90d:46056**
Strasburger, Aleksander *see* **Faraut, J., 90b:22015**
Summers, W. H. *see* **Ruess, W. M., 90d:46056**
Tadić, M. On limits of characters of irreducible unitary representations. (Serbo-Croatian summary) **90b:22019**
Terras, Audrey The central limit theorem for the symmetric space of GL(3). **90j:60015**
Vũ Quốc Phóng Opérateurs et représentations de Markov presque-périodiques de semigroupes dans les espaces L^p. (English summary) [Markov almost periodic operators and representations of semigroups in the spaces L^p] **90g:47060**

43A70 Analysis on specific locally compact abelian groups [see also 11R56]

Items with secondary classifications in 43A70

Onneweer, C. W. (*with* Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. **90b:43004**
Price, John F. (*with* Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. **90c:43006**
Sitaram, Alladi *see* **Price, John F., 90c:43006**
Su, Wei Yi *see* **Onneweer, C. W., 90b:43004**

43A75 Analysis on specific compact groups

Cowling, Michael (*with* Meaney, Christopher) On a maximal function on compact Lie groups. **90a:43005**
Fan, Da Shan (*with* Xie, Jia Hai) A weak inequality for maximal Fejér operators on symplectic groups. (Chinese) **90m:43027**
Meaney, Christopher *see* **Cowling, Michael, 90a:43005**
Xie, Jia Hai *see* **Fan, Da Shan, 90m:43027**

Items with secondary classifications in 43A75

Nurpeisov, R. Zh. On the uniform $(C,1)$-summability of Fourier series and integrability of series with respect to multiplicative orthonormal systems. (Russian summary) **90m:4203**
Patadia, J. R. Lacunary Fourier series on certain groups. **90m:42017**
Timotin, Dan C_p-estimates for certain kernels on local fields. **90a:42010**

43A77 Analysis on general compact groups

Items with secondary classifications in 43A77

Lahiri, B. K. Density and sparse set topology. **90a:22003**
Varadarajan, V. S. The states of the character ring of a compact group. **90f:22015**

43A80 Analysis on other specific Lie groups [see also 22E30]

Dani, S. G. (*with* McCrudden, M.) On the factor sets of measures and local tightness of convolution semigroups over Lie groups. **90d:43005**
McCrudden, M. *see* **Dani, S. G., 90d:43005**
Price, John F. (*with* Sitaram, Alladi) Some uncertainty principles in abstract harmonic analysis. **90c:43006**
Ricci, Fulvio (*with* Sjögren, Peter) Two-parameter maximal functions in the Heisenberg group. **90d:43006**
Sitaram, Alladi *see* **Price, John F., 90c:43006**
Sjögren, Peter *see* **Ricci, Fulvio, 90d:43006**

Items with secondary classifications in 43A80

Chen, Jie Cheng Some notes on maximal operators. (Chinese. English summary) **90k:42036**

Cowling, Michael (*with* Haagerup, Uffe) Completely bounded multipliers of the Fourier algebra of a simple Lie group of real rank one. **90h:22008**
Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. **90c:22028**
Gréland, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] **90i:22015**
Haagerup, Uffe *see* **Cowling, Michael, 90h:22008**
Kamoun, Lotfi Distributions coniques associées à SL(3, **R**). (English summary) [Conical distributions associated to SL(3, **R**)] **90b:22012**
Klimyk, A. U. *see* **Vilenkin, N. Ya., 90a:22020**
Krawczyk, Jarosław Hardy spaces on SU(2). **90b:22013**
Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta+\lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta+\lambda$ on a noncompact-type symmetric space] **90d:43008**
Peetre, Jaak Some calculations related to Fock space and the Shale-Weil representation. **90e:22012**
Stempak, Krzysztof A new proof of a Watson's formula. **90m:33013**
Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $SO_0(n,1)$. **90e:22027**
Vilenkin, N. Ya. (*with* Klimyk, A. U.) Representations of the group SU(1, 1), and the Krawtchouk-Meixner functions. (Russian. English summary) **90a:22020**
Wang, Xiaolu ★ The C^*-algebras of a class of solvable Lie groups. **90j:46060**

43A85 Analysis on homogeneous spaces

Akkouchi, Mohamed Une caractérisation du noyau de Poisson d'un arbre homogène. [A characterization of the Poisson kernel of a homogeneous tree] **90k:43015**
Blümlinger, M. (*with* Drmota, M.; Tichy, R. F.) Asymptotic distribution of functions on compact homogeneous spaces. **90b:43009**
Chen, Guang Xiao A note on the spherical Fourier transform and invariant differential operators on the matrix hyperbolic space $\mathscr{R}_I$. (Chinese) **90f:43012**
— Fundamental solution of Poisson equation in classical Cartan domain $\mathscr{R}_I^*$. **90g:43006**
Clerc, J.-L. Fonctions *K* de Bessel pour les algèbres de Jordan. (English summary) [Bessel *K*-functions for Jordan algebras] **90d:43007**
Cohen, Joel M. (*with* Picardello, Massimo A.) The 2-circle and 2-disk problems on trees. **90a:43006**
Drmota, M. *see* **Blümlinger, M.; et al., 90b:43009**
Faraut, J. Algèbres de Volterra et transformation de Laplace sphérique sur certains espaces symétriques ordonnés. [Volterra algebras and spherical Laplace transform on certain ordered symmetric spaces] **90e:43006**
— Formule du binôme généralisée. [The generalized binomial formula] **90k:43016**
Lewkowicz, R. E. Harmonic functions on homogeneous spaces of commutator induced extensions of compact groups. **90e:43007**
Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta+\lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta+\lambda$ on a noncompact-type symmetric space] **90d:43008**
Mair, B. A. (*with* Philipp, Stanton; Singman, David) A converse Fatou theorem on homogeneous spaces. **90i:43008**
Ōshima, Toshio A method of harmonic analysis on semisimple symmetric spaces. **90g:43007**
Philipp, Stanton *see* **Mair, B. A.; et al., 90i:43008**
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Platonov, S. S. Invariant subspaces in some function spaces on an *n*-dimensional Lobachevskiĭ space. **90f:43013**
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Strichartz, Robert S. Local harmonic analysis on spheres. **90f:43014**
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Wawrzyńczyk, Antoni Spectral analysis and synthesis on homogeneous spaces. (Spanish) **90f:43015**
— Spectral analysis on upper light cone in $\mathbf{R}^3$ and the Radon transform. **90b:43010**

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Agranovskiĭ, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. **90c:32048**
Ahumada, Guido Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] **90h:22009**
Anker, Jean-Philippe Le noyau de la chaleur sur les espaces symétriques $U(p,q)/U(p)\times U(q)$. [The heat kernel on the symmetric spaces $U(p,q)/U(p)\times U(q)$] **90f:58168**
Chaabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] **90k:22010**
Chen, Zhi He The invariant differential operators of order two for a class of nonsymmetric domains. (Chinese) **90c:32045**
Conze, Jean-Pierre (*with* Raugi, Albert) Fonctions μ-harmoniques et méthodes probabilistes d'approximation. (English summary) [μ-harmonic functions and probabilistic methods of approximation] **90d:60011**
Damek, Ewa An area theorem for a one-dimensional semidirect extension of homogeneous groups. **90c:22028**
Faraut, J. (*with* Korányi, A.) Fonctions hypergéométriques associées aux cônes symétriques. (English summary) [Hypergeometric functions associated with symmetric cones] **90a:22010**
— (*with* Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. **90m:32049**
Gréland, Gérard La formule de Plancherel pour les espaces homogènes des groupes de Heisenberg. [The Plancherel formula for homogeneous spaces of Heisenberg groups] **90i:22015**
Klesova, L. M. *see* **Vilenkin, N. Ya., 90a:22018**
Korányi, A. *see* **Faraut, J., 90a:22010** *and* **90m:32049**
Li, Am Gil (*with* Mal'tsev, V. M.) ★ Гармонические функции на группе SU(n). (Russian) [Harmonic functions on the group SU(n)] **90g:22014**
Lipsman, Ronald L. Solvability of noninvariant differential operators on homogeneous spaces. **90b:22026**
Mal'tsev, V. M. *see* **Li, Am Gil, 90g:22014**
Nomura, Takaaki A description of a space of holomorphic discrete series by means of the Fourier transform on the Šilov boundary. **90g:22023**
Orloff, Jeremy Invariant Radon transforms on a symmetric space. **90g:44003**
Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces of rank 1. **90b:22022**
Raugi, Albert *see* **Conze, Jean-Pierre, 90d:60011**
Richards, Donald St. P. Constant regression polynomials and the Wishart distribution. **90h:62120**
Ruiz Blasco, Francisco José (*with* Torrea Hernández, José Luis) Parabolic differential equations and vector-valued Fourier analysis. **90j:42044**
Sampieri, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. **90f:32033**
Sjögren, Peter Asymptotic behaviour of generalized Poisson integrals in rank one symmetric spaces and in trees. **90h:22018**
Solomatina, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) **90a:22011**
Tong, Yue Lin Lawrence (*with* Wang, Shu Ping) Geometric realization of discrete series for semisimple symmetric spaces. **90g:22024**
Torrea Hernández, José Luis *see* **Ruiz Blasco, Francisco José, 90j:42044**
Vilenkin, N. Ya. (*with* Klesova, L. M.) Functions of the discrete spectrum in harmonic analysis on hyperboloids. **90a:22018**
Wang, Shu Ping *see* **Tong, Yue Lin Lawrence, 90g:22024**
Ye, Fang Cao Invariant differential operators on nonexceptional irreducible Riemannian symmetric spaces of the first type. (Chinese. English summary) **90m:32050**
You, Zhong Tent spaces on Lipschitz domains. (Chinese. English summary) **90i:46074**
Yu, Shu Mo Harmonic analysis for operators on homogeneous Banach spaces. (Chinese) **90i:43005**
Zeuner, Hansmartin One-dimensional hypergroups. **90i:43002**
Zhu, Fu Liu Riesz transformations on a noncompact symmetric space of rank one. (Chinese) **90m:22029**

43A90 Spherical functions [see also 22E45, 22E46]

Bouaziz-Kellil, Ferdaous Représentations sphériques des groupes agissant transitivement sur un arbre semi-homogène. (English summary) [Spherical representations of groups acting transitively on a semihomogeneous tree] **90e:43008**

Items with secondary classifications in 43A90

Ahumada, Guido Analyse harmonique sur l'espace d'arêtes d'un arbre. [Harmonic analysis on the edge space of a tree] **90h:22009**
Betori, W. (*with* Faraut, J.; Pagliacci, M.) An inversion formula for the Radon transform on trees. **90k:22004**
Faraut, J. (*with* Strasburger, Aleksander) Vecteurs de Whittaker et fonctions horisphériques. (English summary) [Whittaker vectors and horospherical functions for real hyperbolic spaces] **90b:22015**
— *see also* **Betori, W.; et al., 90k:22004**
Klimyk, A. U. (*with* Vilenkin, N. Ya.) Relations between spherical functions of compact groups. **90i:22024**
Lohoue, Noël Estimées de type Hardy pour l'opérateur $\Delta+\lambda$ d'un espace symétrique de type non compact. (English summary) [Hardy estimates for $\Delta+\lambda$ on a noncompact-type symmetric space] **90d:43008**
Mimachi, Katsuhisa *see* **Noumi, Masatoshi; et al., 90k:17032**
Noumi, Masatoshi (*with* Yamada, Hirofumi; Mimachi, Katsuhisa) Zonal spherical functions on the quantum homogeneous space $SU_q(n+1)/SU_q(n)$. **90k:17032**
Pagliacci, M. *see* **Betori, W.; et al., 90k:22004**
Rader, Cary Spherical functions on Cartan motion groups. **90a:22014**
Radzhabov, B. A. Spherical functions on the groups SO(p,q). II. Associated functions. (Russian. English and Azerbaijani summaries) **90c:22049**
Solomatina, L. E. Fundamental solutions of invariant differential equations on symmetric spaces. (Russian) **90a:22011**
Strasburger, Aleksander Reduction of invariant differential operators and expansions of conical distributions for $SO_0(n,1)$. **90e:22027**
— *see also* **Faraut, J., 90b:22015**
Tiraboschi, Alejandro A relationship between the spherical functions of $SL_2(\mathbf{R})$ and a 2-covering of $I_0(\mathbf{R}^2)$. (Spanish) **90i:22023**
Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. **90d:60012**
Vilenkin, N. Ya. *see* **Klimyk, A. U., 90i:22024**
Wawrzyńczyk, Antoni Spectral analysis on upper light cone in $\mathbf{R}^3$ and the Radon transform. **90b:43010**
Yamada, Hirofumi *see* **Noumi, Masatoshi; et al., 90k:17032**
Zeuner, Hansmartin The central limit theorem for Chébli-Trimèche hypergroups. **90e:60087**

43A99 Miscellaneous topics

Atanasiu, Dragu Fonctions moment sur un semi-groupe commutatif. (English summary) [Moment functions on a commutative semigroup] **90i:43009**
Feinsilver, Philip Elements of q-harmonic analysis. **90i:43010**
He, Ze Lin Approximation by a class of operators and best approximation in $L^p(G)$ with $1<p<\infty$ and $G=\mathbf{R}$, $\mathbf{T}$, or $\mathbf{Z}$. (Chinese) **90g:43008**
Kalyuzhnyĭ, A. A. Duality of generators of compact and discrete hypercomplex systems with a one-dimensional base. (Russian. English summary) **90j:43004**
Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] **90j:43005**

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Chojnacki, Wojciech On some functional equation generalizing Cauchy's and d'Alembert's functional equations. **90a:39010**
Schempp, Walter The diamond solvable Lie group and fiber optical communication systems. (*see* **90i:81003**)
Vaĭnerman, L. I. Nonunimodular quantized hypercomplex systems. (Russian. English summary) **90h:46099**
Vodop'yanov, S. K. Potential theory on homogeneous groups. **90h:31010**
Zeuner, Hansmartin Laws of large numbers of hypergroups on $\mathbf{R}_+$. **90j:60016**

44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}

44–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 44–00

(Gamkrelidze, R. V.) *see* **Analysis, 90j:00027**
(Newton, Dan) *see* **Analysis, 90j:00027**

Items listed otherwise than by author

Analysis ★ Analysis. I. **90j:00027**
Encyclopaedia of Mathematical Sciences ★ Analysis. I. **90j:00027**

44–01 Elementary exposition; textbooks

Items with secondary classifications in 44–01

(Kalinin, Konstantin) *see* **Krasnov, M. L.; et al., 90k:00014**
Kiselev, A. I. *see* **Krasnov, M. L.; et al., 90k:00014**
Krasnov, M. L. (*with* Kiselev, A. I.; Makarenko, G. I.) ★ Funzioni di una variabile complessa. Calcolo operatoriale. Teoria della stabilità. (Italian) [Functions of a complex variable. Operational calculus. Stability theory] **90k:00014**
Makarenko, G. I. *see* **Krasnov, M. L.; et al., 90k:00014**

44A05 General transforms [see also 42A38]

Agrawal, S. M. *see* **Gupta, Kailash Chandra, 90e:44002**
Busurulov, A. A. On a connection between some integral transforms. (Russian) **90f:44001**
Drury, S. W. L^p estimates for certain generalizations of k-plane transforms. **90f:44002**
Globevnik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. **90e:44001**
Gupta, Kailash Chandra (*with* Agrawal, S. M.) Substitution theorems for integral transforms with symmetric kernels. **90e:44002**
Prasad, Y. N. (*with* Singh, V. P.) On a generalized multiple L-I transform. **90c:44001**
Siddiqui, Ashfaqullah On a new class of generalised integral transforms and their application in a boundary value problem of heat conduction. (Hindi. English summary) **90g:44001**
Singh, V. P. *see* **Prasad, Y. N., 90c:44001**

Items with secondary classifications in 44A05

Bennell, R. P. (*with* Mason, J. C.) An application of orthogonal polynomials to the regularisation and smoothing of integral transforms. **90m:42032**
— (*with* Mason, J. C.) Continuous approximation methods for the regularization and smoothing of integral transforms. **90i:65236**
Dyn, N. (*with* Lubinsky, D. S.) Convergence of interpolation to transforms of totally positive kernels. **90h:41004**
Jenkins, W. Kenneth *see* **Marshall, Daniel F.; et al., 90c:94007**
Kerr, Fiona H. *see* **McBride, A. C., 90e:42022**
Lubinsky, D. S. *see* **Dyn, N., 90h:41004**
Marshall, Daniel F. (*with* Jenkins, W. Kenneth; Murphy, J. J.) The use of orthogonal transforms for improving performance of adaptive filters. **90c:94007**
Mason, J. C. *see* **Bennell, R. P., 90i:65236** *and* **90m:42032**
McBride, A. C. (*with* Kerr, Fiona H.) On Namias's fractional Fourier transforms. **90e:42022**
Murphy, J. J. *see* **Marshall, Daniel F.; et al., 90c:94007**
Natterer, F. Mathematics and tomography. **90e:92014**
Nikolić-Despotović, Danica (*with* Pilipović, S.) Abelian theorem for the distributional Stieltjes transformation. **90a:46102**
Pilipović, S. *see* **Nikolić-Despotović, Danica, 90a:46102**
Saitoh, Saburou ★ Theory of reproducing kernels and its applications. **90f:46045**

44A10 Laplace transform

Akhaury, S. K. (*with* Kumar, Vijoy) Analyticity theorem for a distributional generalized Laplace transform. **90m:44001**
— (*with* Kumar, Vijoy) Final value type Abelian theorems for a distributional generalized Laplace transform. **90d:44001**
Berg, Lothar On Danieljan's class of distribution functions. **90k:44001**
Bukin, K. A. A multidimensional Tauberian theorem with a remainder for the Laplace transform. (Russian) **90d:44002**
Debnath, Joyati (*with* Debnath, Narayan Chandra) Theorems on association of variables in multidimensional Laplace transforms. **90j:44001**
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Krishna, J. Gopala (*with* Usha Sree Devi, M.) On a nonstandard approach to asymptotics of Laplace transforms and to Watson's lemma. **90c:44002**
Kumar, Vijoy *see* **Akhaury, S. K., 90d:44001** *and* **90m:44001**
Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] **90c:44003**
Medvedskiĭ, R. I. Inversion of the Laplace transform using asymptotes of the original. (Russian) **90j:44002**
Neamţu, D. (*with* Neamţu, N.) About some properties of Laplace-Dirichlet. (Romanian summary) (*see* **90a:00010**)
Neamţu, N. *see* **Neamţu, D., (90a:00010)**
Ning, Ya Qin Some additional results on the table of Laplace transforms. (Chinese. English summary) **90m:44002**
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Tiwari, A. K. On a distributional generalized Laplace transform. **90k:44002**
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Wang, Ping^2 The $P(R)$ order of analytic functions defined by the Laplace-Stieltjes transform. (Chinese. English summary) **90m:44004**
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Babakahani, A. (*with* Dahiya, R. S.) Iterative Laplace transforms of two variables. **90m:44016**
Chaturvedi, V. K. *see* **Goyal, A. N., 90b:46088**
Chernyaev, V. A. *see* **Pasechnik, L. P., (90a:00008)**
Dahiya, R. S. *see* **Babakahani, A., 90m:44016**
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Duran, Antonio J. The Stieltjes moments problem for rapidly decreasing functions. **90b:44009**
Geluk, J. L. Asymptotically balanced functions and the asymptotic behaviour of the complementary function and the Laplace transform. **90e:26004**
Gilliam, David (*with* Schulenberger, J. R.; Lund, John R.) Spectral representation of the Laplace and Stieltjes transforms. (Portuguese summary) **90e:47021**
Goyal, A. N. (*with* Chaturvedi, V. K.) On generalized transcendental functions and distributional transforms. **90b:46088**
Gupta, Kailash Chandra (*with* Agrawal, S. M.) Substitution theorems for integral transforms with symmetric kernels. **90e:44002**
Gupta, O. P. *see* **Saxena, Ram Kishore; et al., 90j:26009**
Győri, I. (*with* Ladas, G.; Pakula, L.) On oscillations of unbounded solutions. **90b:34102**
Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. **90k:44005**
— Laplace transforms of hyperfunctions: another foundation of the Heaviside operational calculus. **90a:46101**
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Kumbhat, R. K. *see* **Saxena, Ram Kishore; et al., 90j:26009**
Ladas, G. *see* **Győri, I.; et al., 90b:34102**
Lund, John R. *see* **Gilliam, David; et al., 90e:47021** *and* **Đăng Đình Áng; et al., 90e:65180**
Pakula, L. *see* **Győri, I.; et al., 90b:34102**
Pasechnik, L. P. (*with* Chernyaev, V. A.) The Bellman method for the inversion of the Laplace transform. (Russian) (*see* **90a:00008**)
Prabha, Km. Solving integral equation of n-variables by $\mathscr{L}$ and $\mathscr{L}^{-1}$ operators. **90m:45014**
Pyanylo, Ya. D. Approximate inversion of the Laplace transform of discontinuous originals and its application to the solution of a coupled thermal shock problem. (Russian) **90m:65219**
Raina, R. K. *see* **Srivastava, Hari M., 90j:45002**
Ryabov, V. M. Properties of quadrature formulas that can be applied to the inversion of the Laplace transform. (Russian) **90h:65212**
— Properties of quadrature formulas of the highest degree of accuracy that can be applied to inversion of the Laplace transform. (Russian) **90h:65213**
Saxena, Ram Kishore (*with* Gupta, O. P.; Kumbhat, R. K.) On two-dimensional Weyl fractional calculus. **90j:26009**
Schulenberger, J. R. *see* **Gilliam, David; et al., 90e:47021**
Selezov, I. T. (*with* Korsunskiĭ, S. V.) Numerical inversion of the Laplace transformation on the basis of the Fourier-Bessel expansions. (Russian. English summary) **90e:65182**
Singh, Rajpal (*with* Singhal, Mukesh) Theorems connecting different integral transforms. **90a:44006**
Singhal, Mukesh *see* **Singh, Rajpal, 90a:44006**
Srivastava, Hari M. (*with* Raina, R. K.) Solution of a certain multiple integral equation. **90j:45002**
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— An entire function approach to harmonic synthesis. II. Removable poles located at $s = 0$. **90d:42015b**
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44A15 Special transforms (Legendre, Hilbert, etc.)

Ali, Muhammad Abdallah *see* **Koh, E. L.; et al., 90e:44003**
Bentancor, J. J. (*with* Fariña, J. C.) A modified operator of the Hankel transformation on certain spaces of functions. (Spanish summary) **90i:44002**
Betancor, Jorge J. The Hankel-Schwartz transform for function of compact support. **90d:44003**
— On a variant of the Meijer integral transformation. **90a:44002**
— On the boundedness and the range of the Lommel-Maitland transformation. **90j:44005**
— A mixed Parseval's equation and a generalized Hankel transformation of distributions. **90g:44002**
— A generalized Hankel transformation. **90j:44004**
Brychkov, Yu. A. *see* **Prudnikov, A. P.; et al., 90m:44010**
Bybliv, O. Ya. (*with* Lenyuk, M. P.) Hankel integral transforms of the first kind for piecewise-homogeneous segments with an application to problems in mathematical physics. (Russian) **90b:44001**
Chaudhary, M. S. *see* **Patil, P. A., 90b:44003; Kawade, L. J., 90d:44004** *and* **Malgonde, S. P., 90m:44007**
Deeba, E. Y. (*with* Koh, E. L.) Operational calculus for the continuous Legendre transform with applications. **90m:44005**
— *see also* **Koh, E. L.; et al., 90e:44003**
Denisyuk, A. *see* **Palamodov, Victor, 90i:44004**
Fariña, J. C. *see* **Bentancor, J. J., 90i:44002**
Fill, James Allen The Radon transform on Z_n. **90m:44006**
Ghosh, Badal Chandra The n-dimensional distributional complex Hankel and I-transformation of generalized functions. **90b:44002**
Izen, Steven H. Inversion of the k-plane transform by orthogonal function series expansions. **90c:44004**
Kawade, L. J. (*with* Chaudhary, M. S.) On distributional Laplace-Hankel transformation and its application. **90d:44004**
Keinert, Fritz Inversion of k-plane transforms and applications in computer tomography. **90j:44006**
Kijima, Masaaki *see* **Sumita, Ushio, 90m:44014**
Koh, E. L. (*with* Deeba, E. Y.; Ali, Muhammad Abdallah) On the generalized Meijer transformation. **90e:44003**
— *see also* **Deeba, E. Y., 90m:44005**
Lenyuk, M. P. *see* **Bybliv, O. Ya., 90b:44001**
Liang, You Dong *see* **Lü, Wei, 90j:44007**
Lü, Wei (*with* Liang, You Dong) The envelope properties of rational B-spline curves and surfaces. (Chinese. English summary) **90j:44007**
Madych, W. R. (*with* Solmon, D. C.) A range theorem for the Radon transform. **90i:44003**
Malgonde, S. P. (*with* Chaudhary, M. S.) A representation of Hankel type transformable generalized functions. **90m:44007**
Marichev, O. I. *see* **Prudnikov, A. P.; et al., 90m:44010**
Méndez Pérez, José Manuel The modified Dini's series and the finite Hankel-Schwartz integral transformation. **90k:44003**
Moses, H. E. (*with* Prosser, R. T.) A refinement of the Radon transform and its inverse. **90f:44003**
Naylor, Derek On an integral transform involving a class of Mathieu functions. **90j:44008**
Negrín, E. R. The Hankel and I-transformations index of generalized functions. (Spanish summary) **90j:44009**
Nimatov, Kh. On the reconstruction of a function in terms of its integrals along a family of lines in space. (Russian. Tajiki summary) **90a:44003**
Orloff, Jeremy Invariant Radon transforms on a symmetric space. **90g:44003**
Palamodov, Victor (*with* Denisyuk, A.) Inversion de la transformation de Radon d'après des données incomplètes. (English summary) [Inversion of the Radon transform based on incomplete data] **90i:44004**
Pandey, Ram Nakshatra *see* **Pathak, R. S., 90m:44008**
Pathak, R. S. (*with* Pandey, Ram Nakshatra) Asymptotic expansions of the Mehler-Fock transform. **90m:44008**
Patil, P. A. (*with* Chaudhary, M. S.) On the spaces of type $T(\lambda, \mu)$ and their Mellin, Watson and Hankel transforms. **90b:44003**
Peters, J. V. The Radon transform on $L^p(\mathbf{R}^n)$. (Not in MR)
Pilipović, S. On the behaviour of the distributional Stieltjes transformation at the origin. (German and Russian summaries) **90m:44009**
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Radzhabov, È. L. Some properties of the multidimensional generalized integral Bessel-Hankel transform. (Russian. Tajiki summary) **90m:44011**
Reimer, M. Die Wirkung der Radon-Transformation auf Polynomräume. (English summary) [The effect of the Radon transform on polynomial spaces] **90m:44012**
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Sharma, Yogendra Kumar *see* **Singh, Narendra, 90j:44010**
Shinkarik, N. I. A class of hybrid integral transform (Fourier-Legendre, Legendre-Fourier). (Russian. English summary) **90k:44004**
Singh, Narendra (*with* Sharma, Yogendra Kumar) On generalized theorems connecting integral transforms. **90j:44010**
Sinha, Sunil Kumar[1] On two new characterizations of the Hankel transform for distributions. **90c:44005**
Sitnik, S. M. A pair of transformation operators. (Russian) (*see* **89j:35005**)
Solmon, D. C. *see* **Madych, W. R., 90i:44003**
Sumita, Ushio (*with* Kijima, Masaaki) The Laguerre transform of product of functions. **90m:44014**
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Zeng, Guang Da A block-pulse function transform and its application. **90m:44015**

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Ahirrao, B. R. (*with* More, S. V.) On distributional Laplace-Hardy $\mathscr{L}F_\nu$ transformation. **90k:46094**
Aĭzenberg, L. A. Uniqueness sets for Wiener classes. An analogue of the Kotel′nikov theorem for nonuniform reference frames. Inversion of the Radon transform from incomplete data. (Russian. Serbo-Croatian summary) (*see* **90j:30001**)
Bai, Zhi Dong (*with* Krishnaiah, P. R.; Rao, Calyampuli Radhakrishna; Sun, Y. N.; Zhao, Lin Cheng) Reconstruction of the shape and size of objects from two orthogonal projections. **90m:92005**
Barceló, Juan A. (*with* Córdoba, A.) Band-limited functions: L^p-convergence. **90g:42017**
Betancor, Jorge J. The Hankel-Clifford transformation on certain spaces of ultradistributions. **90f:46070**
Boenkost, W. (*with* Constantinescu, F.; Scharffenberger, U.) The inverse of a Borel summable function. **90c:81037**
Böttcher, Albrecht L. V. Mikaelyan's conjecture in the theory of Wiener-Hopf determinants. (Russian) **90g:45010**
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Chambers, Ll. G. Note on the functional-differential equation $\sum_{m=-\infty}^{\infty} a_m y'(x + m\alpha) = f(x)$. **90g:34082**
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Chaudhary, M. S. *see* **Tekale, B. K., 90c:46052**
Chaudhry, Muhammad Aslam (*with* Kazi, M. H.) Distributional $(n + 1)$-dimensional heat equation. **90b:35109**
Constantinescu, F. *see* **Boenkost, W.; et al., 90c:81037**
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Das, Gokulananda (*with* Guru, N.) Functional Nörlund methods. **90d:40014**
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Devaney, Anthony J. The limited-view problem in diffraction tomography. **90h:78018**
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Fenyő, I. On the Hankel-transformation of Schwartz distributions. **90g:46061**
— On the generalized Hankel transformation. **90a:46099**
Geluk, J. L. On the asymptotic behaviour of an exponential integral. **90c:41065**
Goyal, A. N. (*with* Chaturvedi, V. K.) On generalized transcendental functions and distributional transforms. **90b:46088**
Guru, N. *see* **Das, Gokulananda, 90d:40014**
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Lautsch, Michael A spline inversion formula for the Radon transform. **90h:65210**
Leray, J. La transformation de Laplace-d'Alembert. [The Laplace-d'Alembert transform] **90c:44003**
Le Roux, Joël (*with* Dubus, Francis) On the relationship between 1-D and 2-D spectral factorization—application to the analysis of the stability of 2-D transfer functions. (French and German summaries) **90c:94012**
Lifanov, I. K. (*with* Poltavskiĭ, L. N.) The generalized Hilbert operator. **90j:45014**
Maass, Peter Wideband radar: the hyp transform. **90h:78011**
Mishra, S. K. *see* **Pathak, R. S., 90m:46069**
More, S. V. *see* **Ahirrao, B. R., 90k:46094**
Natterer, F. Mathematics and tomography. **90e:92014**
Nishimoto, Katsuyuki Fractional calculus of some elementary functions of two variables. **90d:26013**
Pandey, Ram Nakshatra *see* **Pathak, R. S., 90m:26017**
Pathak, R. S. (*with* Pandey, Ram Nakshatra) On certain fractional integral operators. **90m:26017**
— (*with* Mishra, S. K.) Asymptotic behaviours of a class of integral transforms in complex domains. **90m:46069**
Phong, D. H. (*with* Stein, E. M.) Singular Radon transforms and oscillatory integrals. **90j:42043**
Pilipović, S. Quasiasymptotic expansion of distributions from S'_+ and the asymptotic expansion of the distributional Stieltjes transform. **90m:46070**
— Asymptotic expansions of Schwartz's distributions. **90k:46093**
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Rao, Calyampuli Radhakrishna *see* **Bai, Zhi Dong; et al., 90m:92005**
Rawn, Michael D. On nonuniform sampling expansions using entire interpolating functions, and on the stability of Bessel-type sampling expansions. **90k:94009**
Rogov, V.-B. K. The Fourier-Mellin-Whittaker transform on horospheres of homogeneous pseudo-Riemannian symmetric spaces of rank 1. **90f:43010**
Scharffenberger, U. *see* **Boenkost, W.; et al., 90c:81037**
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Sinha, Sunil Kumar[1] On two new characterizations of the finite Sturm-Liouville transform for distributions. **90d:46064**
Sinnamon, Gordon A note on the Stieltjes transformation. **90a:26026**
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Svensson, Lars Eric Functional analytic approach to stability problems in three-dimensional theoretical tomography. **90f:92006**
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Tchamitchian, Ph. Ondelettes et intégrale de Cauchy sur les courbes lipschitziennes. (English summary) [Wavelets and the Cauchy integral on Lipschitz curves] **90h:42048**
Tekale, B. K. (*with* Chaudhary, M. S.) On Stieltjes transform of Banach-space-valued distributions. **90c:46052**
Thompson, Alan A. A singular Radon transform on $\mathbf{RP}^3$. **90k:42033**
Tröger, G. A Tauberian theorem for the generalized S_2-transform of distributions. **90j:46045**
Wegert, E. (*with* von Wolfersdorf, L.) A uniform inequality for the finite Hilbert transform in weighted Lebesgue spaces. **90e:42024**
von Wolfersdorf, L. *see* **Wegert, E., 90e:42024**
Wong, Roderick ★ Asymptotic approximations of integrals. **90j:41061**
Zhao, Lin Cheng *see* **Bai, Zhi Dong; et al., 90m:92005**

44A20 Transforms of special functions

Embrechts, Paul (*with* Omey, Edward) An Abelian theorem for a general class of Mellin-type integral transforms. **90a:44005**
Naylor, Derek On an integral transform. **90b:44004**
Omey, Edward *see* **Embrechts, Paul, 90a:44005**
Pandey, Ram Nakshatra *see* **Pathak, R. S., 90g:44004**
Pathak, R. S. (*with* Pandey, Ram Nakshatra) Abelian theorems for Mehler-Fock transformations. **90g:44004**
Rawn, Michael D. Generalized sampling theorems for Bessel-type transforms of bandlimited functions and distributions. **90j:44011**
Rodríguez Expósito, José The integral L-transform in a space of generalized functions. (Spanish. English summary) **90b:44005**
Singh, Rajpal (*with* Singhal, Mukesh) Theorems connecting different integral transforms. **90a:44006**
Singhal, Mukesh *see* **Singh, Rajpal. 90a:44006**

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Adamchik, V. S. (*with* Kölbig, K. S.) A definite integral of a product of two polylogarithms. **90b:33014**
Agrawal, S. M. *see* **Gupta, Kailash Chandra, 90h:33010**
Babakahani, A. (*with* Dahiya, R. S.) Iterative Laplace transforms of two variables. **90m:44016**
Dahiya, R. S. *see* **Babakahani, A., 90m:44016**
Gupta, Kailash Chandra (*with* Agrawal, S. M.) On a chain involving the H-function transform. **90h:33010**
Kiryakova, Virginia S. A generalized fractional calculus and integral transforms. **90a:26011**
Kölbig, K. S. *see* **Adamchik, V. S., 90b:33014**
Radzhabov, È. L. Some properties of the multidimensional generalized integral Bessel-Hankel transform. (Russian. Tajiki summary) **90m:44011**
Reimer, M. Die Wirkung der Radon-Transformation auf Polynomräume. (English summary) [The effect of the Radon transform on polynomial spaces] **90m:44012**

44A30 Multiple transforms

Babakahani, A. (*with* Dahiya, R. S.) Iterative Laplace transforms of two variables. **90m:44016**
Dahiya, R. S. *see* **Babakahani, A., 90m:44016**
Goyal, S. P. *see* **Gupta, Kailash Chandra**, (Not in MR)
Gupta, Kailash Chandra (*with* Goyal, S. P.) On two-dimensional Laplace transform. (Not in MR)

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Kruzhalov, O. A. A generalization of the Young-Fenchel transform that is consistent with a multidimensional calculus of variations. (Russian) **90d:49009**
Omey, Edward (*with* Willekens, E.) Abelian and Tauberian theorems for the Laplace transform of functions in several variables. **90j:44003**
Willekens, E. *see* **Omey, Edward, 90j:44003**

44A35 Convolution

Items with secondary classifications in 44A35

Baernstein, Albert, II Some topics in symmetrization. **90h:26022**
Bohnke, G. Algèbres de type Besov-Sobolev. [Algebras of Besov-Sobolev type] **90c:46043**
Kerman, R. A. Pointwise convergence approximate identities of dilated radially decreasing kernels. **90a:42015**
Kuznetsov, Sergeĭ Vladimirovich Extension of the concept of convolution in the spaces $B_{\infty,k}$ of generalized functions of slow growth. (Russian) **90m:46064**
Lenze, Burkhard On multidimensional Lebesgue-Stieltjes convolution operators. **90k:41032**
Mikusiński, P. A remark on regular operators. **90j:44012**
Pilipović, S. Some properties of the quasiasymptotic of Schwartz distributions. I. Quasi-asymptotic at $\pm\infty$. **90b:46085**
Rodríguez, J. Operational calculus through the convolutional method for the Bessel operator. **90k:44009**
Saleh, Abdullah Algebraic characterization of $\mathscr{K}_p'$; $p \geq 1$. **90h:46070**

44A40 Calculus of Mikusiński and other similar operational calculi

Boehme, Thomas K. Some comments on the Burzyk-Paley-Wiener theorem for regular operators. **90b:44006**
Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. **90k:44005**
(Mashanov, V. I.) *see* **Yosida, Kôsaku, 90k:44008**
Mieloszyk, Eligiusz Operational calculus with derivative $\hat{S} = S^2$. **90d:44005**
Mikusiński, P. On delta sequences. (Italian summary) **90c:44006**
— On harmonic Boehmians. **90b:44007**
— A remark on regular operators. **90j:44012**
Nemzer, Dennis Periodic Boehmians. **90k:44006**
Nikitin, O. L. (*with* Suleĭmenov, Zh. S.) Application of operational calculus for the discretization of ordinary differential equations. (Russian) **90h:44001**
(Radyno, Ya. V.) *see* **Yosida, Kôsaku, 90k:44008**
Rodríguez, J. Operational calculus for the generalized Bessel operator. **90k:44007**
Sharkawi, I. E. On a solution of the operator differential equation with variable coefficients. **90a:44007**
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Takači, Djurdjica The measure of approximation for the particular solution. **90g:44005**
Yosida, Kôsaku ★ Операционное исчисление. (Russian) [Operational calculus] **90k:44008**
Zhou, Zhi Hu A relation equivalent to convergence for Mikusiński operators. (Chinese. English summary) **90f:44004**

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Boehme, Thomas K. Two theorems on the differentiation of regular convolution quotients. **90d:46059**
Deeba, E. Y. (*with* Koh, E. L.) Operational calculus for the continuous Legendre transform with applications. **90m:44005**
ter Elst, A. F. M. *see* **de Graaf, Jan, 90d:46058**
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Kamiński, A. (*with* Uryga, J.) Convolution in $K'\{M_p\}$-spaces. **90b:46083**
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Mikusiński, P. Boehmians and generalized functions. **90a:46090**
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Takači, Djurdjica The approximate solution of a partial differential equation. II. **90i:35015**
— *see also* **Pap, Endre, 90a:35003**
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44A45 Classical operational calculus

Rodríguez, J. Operational calculus through the convolutional method for the Bessel operator. **90k:44009**
Wysocki, H. The result derivative; distributive results. **90m:44017**

44A60 Moment problems

Aleksandrov, E. L. (*with* Il′mushkin, G. M.) Moment operator problems. (Russian) (*see* **90i:00006**)
Antolín, J. Inverse problems, moment theory and the maximum entropy formalism. **90m:44018**
Chandler, J. D., Jr. Moment problems for compact sets. **90c:44007**
Dacunha-Castelle, Didier (*with* Gamboa, Fabrice) Grandes déviations et problème des moments généralisés sous contraintes. (English summary) [Large deviations and the generalized moments problem under constraints] **90b:44008**
Duran, Antonio J. The Stieltjes moments problem for rapidly decreasing functions. **90b:44009**
Gamboa, Fabrice *see* **Dacunha-Castelle, Didier, 90b:44008**
Il′mushkin, G. M. *see* **Aleksandrov, E. L., (90i:00006)**

Items with secondary classifications in 44A60

Aleksandrov, E. L. *see* **Il′mushkin, G. M., 90g:47028**
Atanasiu, Dragu Fonctions moment sur un semi-groupe commutatif. (English summary) [Moment functions on a commutative semigroup] **90i:43009**
Basu, Sankar Padé approximants to matrix Stieltjes series: convergence and related properties. **90j:41031**
Bekker, M. B. On continuation from a half-axis of a continuous positive definite generalized Toeplitz kernel. (Russian. English summary) **90h:47031**
Berg, Christian On the uniqueness of minimal definitizing polynomials for a sequence with finitely many negative squares. **90b:47061**
Bolotnikov, V. A. Descriptions of solutions of a degenerate moment problem on the axis and the halfaxis. (Russian) **90g:30037**
Chihara, T. S. Hamburger moment problems and orthogonal polynomials. **90b:42035**
Danielyan, È. A. (*with* Tatalyan, K. R.) The Chebyshev extremal problem on majorized classes of distributions with moments from a parallelepiped. (Russian) **90f:60032**
Gohberg, I. (*with* Kaashoek, M. A.; Woerdeman, H. J.) The band method for positive and strictly contractive extension problems: an alternative version and new applications. **90c:47022**
Golub, A. P. Generalized moment representations of basic hypergeometric series. **90k:33008**
Il′mushkin, G. M. (*with* Aleksandrov, E. L.) Solutions of an operator power moment problem. (Russian) **90g:47028**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 90c:47022**
Kostov, V. P. On the geometric properties of Vandermonde's mapping and on the problem of moments. **90h:58009**
Myrzanov, Zh. E. Reconstruction of an integral from power moments of the integrand. (Russian) **90a:41025**
Njåstad, Olav Orthogonal rational functions with poles in a finite subset of $\mathbf{R}$. **90e:42043**
— Contractive Laurent fractions and nested discs. **90e:30035**
Tatalyan, K. R. *see* **Danielyan, È. A., 90f:60032**

Woerdeman, H. J. *see* **Gohberg, I.; et al., 90c:47022**

45–XX Integral equations

45–01 Elementary exposition; textbooks

Hackbusch, W. ★ Integralgleichungen. (German) [Integral equations] **90g:45001**
Hochstadt, Harry ★ Integral equations. **90h:45001**

Items with secondary classifications in 45–01

(Embarek, Djilali) *see* **Smirnov, Vladimir Ivanovich, 90k:00002c**
Smirnov, Vladimir Ivanovich ★ Lehrgang der höheren Mathematik. Teil IV/1. (German) [Course in higher mathematics. Part IV/1] **90k:00003a**
— ★ Cours de mathématiques supérieures. Tome IV. Première partie. (French) [Course in higher mathematics. Vol. IV. Part One] **90k:00002c**
Vladimirov, V. S. ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] **90m:00009**

45–02 Advanced exposition (research surveys, monographs, etc.)

Gorenflo, Rudolf Nonlinear Abel integral equations: applications, analysis, numerical methods. **90g:45002**

Items with secondary classifications in 45–02

Kress, Rainer ★ Linear integral equations. **90j:45001**
(Myshkis, A. D.) *see* **Petrovskiĭ, I. G., 90a:34003**
(Oleĭnik, O. A.) *see* **Petrovskiĭ, I. G., 90a:34003**
(Petrova, Irina) *see* **Petrovskiĭ, I. G., 90a:34003**
Petrovskiĭ, I. G. ★ Théorie des équations différentielles ordinaires et des équations intégrales. (French) [Theory of ordinary differential equations and integral equations] **90a:34003**

45–04 Explicit machine computation and programs (not the theory of computation or programming)

Shablygin, Eugene Integral equation with hidden eigenparameter solver: REDUCE + FORTRAN in tandem. (*see* **90i:68007**)

45–06 Proceedings, conferences, etc.

(Imanaliev, M. I.) *see* **Studies in integro-differential equations, 90a:45001**

Items listed otherwise than by author

Studies in integro-differential equations ★ Исследования по интегро-дифференциальным уравнениям. Вып. 21. (Russian) [Studies in integro-differential equations. No. 21] **90a:45001**

Items with secondary classifications in 45–06

(Dafermos, C. M.) *see* **Differential equations, 90f:00003**
(Da Prato, G.) *see* **Volterra integrodifferential equations in Banach spaces and applications, 90d:00047**
(Iannelli, M.) *see* **Volterra integrodifferential equations in Banach spaces and applications, 90d:00047**
(Ladas, G.) *see* **Differential equations, 90f:00003**
(Papanicolaou, G.) *see* **Differential equations, 90f:00003**
(Tsalyuk, Z. B.) *see* **Integral operators and equations, 90a:00005**

Items listed otherwise than by author

Conference:
  EQUADIFF ★ Differential equations. **90f:00003**
  Volterra Integrodifferential Equations in Banach Spaces and Applications ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Differential equations ★ Differential equations. **90f:00003**
Integral operators and equations ★ Интегральные операторы и уравнения. (Russian) [Integral operators and equations] **90a:00005**
Trento ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Volterra integrodifferential equations in Banach spaces and applications ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Xanthi ★ Differential equations. **90f:00003**

45A05 Linear integral equations

Agrawal, R. K. *see* **Joshi, B. K.**, (Not in MR)
Espas, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) **90c:45001**
Joshi, B. K. (*with* Agrawal, R. K.) On a generalised Poisson integral equation. (Hindi. English summary) (Not in MR)
Khusanov, D. Kh. Two-sided solutions of linear inhomogeneous systems. (Russian) (*see* **90d:00026**)
Kress, Rainer ★ Linear integral equations. **90j:45001**
Lange, Charles G. (*with* Smith, Donald Ray) Singular perturbation analysis of integral equations. **90m:45001**
Nimatov, Kh. An integral equation of the first kind. **90b:45001**
Raina, R. K. *see* **Srivastava, Hari M., 90j:45002**
Smith, Donald Ray *see* **Lange, Charles G., 90m:45001**
Srivastava, Hari M. (*with* Raina, R. K.) Solution of a certain multiple integral equation. **90j:45002**

Items with secondary classifications in 45A05

Pulyaev, V. F. Bounded and almost periodic solutions of linear integral equations. I. **90j:47068**
Rippl, Jiří Some generalisations of integral transforms and their use in applied dynamics research. **90a:44001**
Shishina, V. T. Analytic solutions of an integral equation. (Russian) (*see* **90d:00046**)

45B05 Fredholm integral equations

Bertero, M. (*with* Boccacci, P.; Brianzi, P.; Pike, E. R.) Inverse problems in confocal scanning microscopy. **90f:45001**
Boccacci, P. *see* **Bertero, M.; et al., 90f:45001**
Brianzi, P. *see* **Bertero, M.; et al., 90f:45001**
Cochran, James A. On an integral equation with a Bessel function kernel. **90b:45002**
Domanskiĭ, E. N. (*with* Plichko, A. N.) On a generalization of a theorem of Picard on the solvability of a Fredholm integral equation of the first kind. (Russian) **90b:45003**
Galumyan, A. G. Estimates for solutions of some integral equations on an interval. (Russian. English and Armenian summaries) **90c:45002**
Garey, L. E. (*with* Gilmore, K. A.; Gladwin, C. J.) Direct methods for second order Fredholm integro-differential equations with two point boundary conditions. **90e:45001**
Gautesen, A. K. On a class of Fredholm integral operators—asymptotic expansions of solutions and eigenfunctions. **90f:45002**
— *see also* **Olmstead, W. E., 90c:45003**
Gilmore, K. A. *see* **Garey, L. E.; et al., 90e:45001**
Gladwin, C. J. *see* **Garey, L. E.; et al., 90e:45001**
Groetsch, C. W. Convergence analysis of a regularized degenerate kernel method for Fredholm integral equations of the first kind. **90m:45002**
Guilpin, Ch. *see* **Guy, J.; et al., 90a:45002**
Guy, J. (*with* Guilpin, Ch.; Salès, A.) Solving finite boundaries integral equations related to x-ray scanners. **90a:45002**
Haidar, Nassar H. S. Approximate double series solution to certain Fredholm integral equations of the first kind. **90m:45003**
Jain, D. L. *see* **Sampath, C., 90a:45003**
Moret, Igor (*with* Omari, P.) An iterative variant of the degenerate kernel method for solving Fredholm integral equations. **90j:45003**
Olmstead, W. E. (*with* Gautesen, A. K.) Asymptotic solution of some singularly perturbed Fredholm integral equations. **90c:45003**
Omari, P. *see* **Moret, Igor, 90j:45003**
Pike, E. R. *see* **Bertero, M.; et al., 90f:45001**
Plichko, A. N. *see* **Domanskiĭ, E. N., 90b:45003**
Salès, A. *see* **Guy, J.; et al., 90a:45002**
Sampath, C. (*with* Jain, D. L.) On solution of the integral equations for the potential problems of two circular-strips. **90a:45003**
Schneider, Claus On weakly singular integral equations of the second kind. **90b:45004**
Wisotzki, C. Behandlung Fredholmscher Integralgleichungen mit schwachen Singularitäten und Unstetigkeiten erster Art in den Kernfunktionen. (English and Russian summaries) [Treatment of Fredholm integral equations with weak singularities and discontinuities of the first kind in the kernel functions] **90i:45001**

Items with secondary classifications in 45B05

Abramowich, John Syntactic methods for recursive equations and applications to differential equations. **90h:00025**
Alimov, Sh. A. (*with* Shirinkulov, T. Sh.) Solution of contact problems in creep theory. **90i:73092**
Cubillos, Pedro O. Eigenvalue problems for Fredholm integral operators. **90e:65187**
Dmitriev, V. I. (*with* Zakharov, E. V.) ★ Интегральные уравнения в краевых задачах электродинамики. (Russian) [Integral equations in boundary value problems of electrodynamics] **90b:78001**
Èbanoidze, T. A. A singular integral equation. (Russian) **90b:45020**
Evans, David J. (*with* Rahma, A. M. S.) The numerical solution of Fredholm integral equations on parallel computers. **90c:65159**
Graham, I. G. (*with* Shaw, R. E.; Spence, A.) Adaptive numerical solution of integral equations with application to a problem with a boundary layer. **90b:65247**
Gülzow, V. An integral equation method for the time-harmonic Maxwell equations with boundary conditions for the normal components. **90e:78007**
Guo, Da Jun Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. **90k:45003**
— Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. **90m:45011**
Gupta, Chaitan P. On a third-order three-point boundary value problem at resonance. **90e:34032**
Iqbal, Mohammad^{1} Comparison of methods for solving ill-posed problems in the form of Fredholm integral equations of the first kind, with and without nonnegativity constraints. **90j:65159**
Jost, Gabriele Integral equations with modified fundamental solution in time-harmonic electromagnetic scattering. **90d:35268**
Karpenko, S. F. Approximate solution of the Lyapunov-Lichtenstein equations by means of an approximation-iteration method. **90k:45009**
King, J. T. (*with* Neubauer, A.) A variant of finite-dimensional Tikhonov regularization with a posteriori parameter choice. (German summary) **90d:65107**
Meleshko, I. N. On an approximate solution of a singular integro-differential equation. **90g:45018**

Micke, A. (*with* Wisotzki, C.) Lösung von Fredholmschen Integralgleichungen mit unstetigen Kernen. (English and Russian summaries) [Solution of Fredholm integral equations with discontinuous kernels] **90d:65229**
Mureşan, Viorica Basic problem for Maia-Perov's fixed point theorem. **90a:54112**
Neubauer, A. An a posteriori parameter choice for Tikhonov regularization in the presence of modeling error. **90d:65108**
— *see also* **King, J. T., 90d:65107**
Rahma, A. M. S. *see* **Evans, David J., 90c:65159**
Richter, Gerhard Random Fredholm integral equations of the second kind with degenerate kernels. II. Bounds for probabilities. **90j:65160**
Rõõm, R. On the use of optimal linear filtering for the solution of ill-posed problems. (Russian. English and Estonian summaries) **90i:93128**
Rundell, William Determining the birth function for an age structured population. (French summary) **90b:92055**
Saaty, T. L. (*with* Vargas, Luis G.) Dirac distributions and threshold firing in neural networks. **90c:92024**
Shaw, R. E. *see* **Graham, I. G.; et al., 90b:65247**
Shirinkulov, T. Sh. *see* **Alimov, Sh. A., 90i:73092**
Shishkin, G. A. Formulation and solution of linear boundary value problems for Fredholm integro-differential equations with deviating argument. (Russian) (*see* **90a:00007**)
Shlepakov, L. N. A method for solving linear Fredholm integral equations. (Russian) **90m:65244**
Spence, A. *see* **Graham, I. G.; et al., 90b:65247**
Vargas, Luis G. *see* **Saaty, T. L., 90c:92024**
Viano, G. A. Fredholm integral equations of first kind and the method of correlogram. **90h:65222**
Wisotzki, C. *see* **Micke, A., 90d:65229**
Zakharov, E. V. *see* **Dmitriev, V. I., 90b:78001**

45C05 Eigenvalue problems [see also 34B25, 35Pxx, 45P05]

Cochran, James A. Refined eigenvalue estimates in the case of Lipschitz continuity. **90j:45004**
Dellwo, David R. Accelerated spectral refinement with applications to integral operators. **90j:45005**
Vlasov, V. V. Some boundary value problems for a class of integro-differential equations. (Russian) **90e:45002**

Items with secondary classifications in 45C05

Amer, S. M. *see* **Saleh, M. H., 90b:45030**
Azizov, M. A method for the approximate solution of the eigenvalue problem for completely continuous operators. (Russian. Tajiki summary) **90m:47046**
Cubillos, Pedro O. Eigenvalue problems for Fredholm integral operators. **90e:65187**
Gautesen, A. K. On a class of Fredholm integral operators—asymptotic expansions of solutions and eigenfunctions. **90f:45002**
Han, Qi Heng The properties of the spectra of a class of nonlinear integral equations. (Chinese. English summary) (Not in MR)
Imomkulov, S. A. (*with* Lakaev, S. N.) The discrete spectrum of the one-dimensional Friedrichs model. (Russian) **90a:45009**
Kopylov, Yu. N. ★ Алгоритмы статистического моделирования для расчета решения и его возмущения в задаче отыскания минимального собственного значения оператора Лапласа. (Russian) [Statistical modeling algorithms for the calculation of the solution and its perturbation in a problem of determining the minimal eigenvalue of the Laplace operator] **90d:65017**
Lakaev, S. N. *see* **Imomkulov, S. A., 90a:45009**
Lei, Peng The eigenvalues of some integral matrices and their applications in transport theory. (Chinese. English summary) **90k:82110**
Makin, R. S. Properties of solutions and the completeness of eigenfunctions of an integro-differential system of equations of the dynamics of a reactor. **90a:47129**
Oehring, Charles Singular numbers of smooth kernels. II. **90c:47035**
Saleh, M. H. (*with* Amer, S. M.) Approximate solution of a certain class of nonlinear singular integral equations. **90b:45030**
Sobirov, I. The existence of an nth eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) **90j:47070**

45D05 Volterra integral equations [see also 34A10]

Al-Janabi, A. S. A. On Volterra equations. (Arabic summary) **90g:45003**
Asanov, A. *see* **Imanaliev, M. I., 90g:45006**
Ashirov, S. A. On the theory of solutions of nonlinear Volterra-Fredholm operator equations. (Russian) **90e:45003**
Atdaev, S. A class of integro-differential equations of Volterra type. (Russian. English summary) **90c:45004**
Bachurskaya, A. F. (*with* Tsalyuk, Z. B.) Some remarks on the continuability of solutions of Volterra equations. (Russian) **90g:45004**
Balachandran, Krishnan Existence of solution for nonlinear Volterra integral equation with deviating argument. **90d:45001**
Bushell, P. J. (*with* Okrasiński, W.) Uniqueness of solutions for a class of nonlinear Volterra integral equations with convolution kernel. **90m:45004**
Ch'ên, Hung I A Levin type comparison theorem and oscillation results for Volterra-Stieltjes integral equations. **90g:45005**
Choi, U Jin (*with* MacCamy, R. C.) Fractional order Volterra equations with applications to elasticity. **90e:45004**
Dragomir, S. S. On some qualitative aspects for a pair of Volterra integral equations. I. **90i:45002**
Elaydi, S. (*with* Sivasundaram, S.) A unified approach to stability in integrodifferential equations via Liapunov functions. **90j:45006**
Hino, Yoshiyuki (*with* Murakami, Satoru) Periodic solutions of a linear Volterra system., **90m:45005**
Hu, Yue Ming Some problems of Volterra integro-differential equations. **90m:45006**
Imanaliev, M. I. (*with* Asanov, A.) Regularization, uniqueness and existence of the soluti for Volterra integral equations of the first kind. (Russian) **90g:45006**
Kabanikhin, S. I. Regularization of Volterra operator equations of the first kind with a boundedly Lipschitz-continuous kernel. **90i:45003**
Karapetyants, N. K. Some classes of Volterra integral equations with a difference kernel. (Russian) **90g:45007**
MacCamy, R. C. *see* **Choi, U Jin, 90e:45004**
Martinenko, Mar'ya D. (*with* Martynenko, Mikhaĭlo D.) Volterra-type integral equations of the second kind. (Ukrainian. Russian summary) **90i:45004**
Martynenko, Mikhaĭlo D. *see* **Martinenko, Mar'ya D., 90i:45004**
Murakami, Satoru *see* **Hino, Yoshiyuki, 90m:45005**
Naubetova, Sh. A. Properties of solutions of Volterra integral equations of the first kind w variable prehistory. (Russian) **90b:45005**
Okrasiński, W. *see* **Bushell, P. J., 90m:45004**
Prüss, J. Regularity and integrability of resolvents of linear Volterra equations. **90i:4500**
Ramazanov, M. I. Investigation of the spectrum of a singular Volterra integral equation. (Russian) (*see* **90m:00032**)
Sharipov, S. A Volterra integral equation of the first kind with a discontinuous right-hand side. (Russian) **90j:45007**
Sivasundaram, S. *see* **Elaydi, S., 90j:45006**
Skrzypczyk, Jerzy Second-order linearization method for nonlinear dynamic systems described by Volterra integral equations. (French, Russian and Polish summaries) **90a:45004**
Srazhidinov, A. Regularization of an integral equation of the first kind of Volterra type wi imprecise data. (Russian) **90i:45006**
— On the solution of a convolution Volterra integral equation of the first kind. (Russian) **90j:45008**
— On the theory of the solvability of integral equations of the first kind of Volterra type. (Russian) (Not in MR)
Tsalyuk, Z. B. *see* **Bachurskaya, A. F., 90g:45004**
Valiakhmetov, A. T. *see* **Volkodavov, V. F., 90b:45006**
Volkodavov, V. F. (*with* Valiakhmetov, A. T.) Identities for a special function and their applications to the solution of Volterra integral equations of the first kind. (Russian) **90b:45006**
Zheng, Quan^2 Existence of solutions and comparison theorems for nonlinear Volterra integral equations in Banach spaces. (Chinese. English summary) **90i:45007**
— Nonlinear Volterra integral equations in Banach spaces and their applications. (Chinese summary) **90g:45008**
Zhukovskiĭ, E. S. On the theory of Volterra equations. **90j:45009**

Items with secondary classifications in 45D05

Alimov, Sh. A. (*with* Shirinkulov, T. Sh.) Solution of contact problems in creep theory. **90i:73092**
Antonishin, I. O. On the asymptotic behavior of a nonlinear Volterra integro-differential equation. (Russian) **90e:45013**
Arendt, W. (*with* Kellermann, H.) Integrated solutions of Volterra integrodifferential equations and applications. **90h:47068**
Barbanti, Luciano Controllability and approximate controllability for linear integral Volterra-Stieltjes equations. **90i:93013**
Bian, Wen Ming *see* **Zhang, Shi Sheng, 90g:47106**
Bilenko, V. I. The error in the a-method for solving Volterra integral equations with polynomial nonlinearities. **90g:65175**
Blokhin, A. M. (*with* Mishchenko, E. V.) On the determination of the solutions of a second-order equation. (Russian) **90a:78001**
Brunner, Hermann Collocation methods for nonlinear Volterra integro-differential equations with infinite delay. **90m:65227**
Burton, Theodore Allen (*with* Hutson, V.) Repellers in systems with infinite delay. **90d:58141**
Cannon, John R. (*with* Lin, Yanping) Smooth solutions for an integro-differential equatio of parabolic type. **90c:45012**
Clément, Philippe (*with* Mitidieri, Enzo) Qualitative properties of solutions of Volterra equations in Banach spaces. **90c:45017**
Corduneanu, C. Some global problems for Volterra functional-differential equations. **90h:34103**
Crisci, M. R. (*with* Jackiewicz, Z.; Russo, E.; Vecchio, A.) Global stability condition for collocation methods for Volterra integral equations of the second kind. **90m:65229**
Desch, W. (*with* Miller, Richard K.) Exponential stabilization of Volterra integral equations with singular kernels. **90f:93050**
Didyk, B. V. *see* **Luchka, A. Yu., 90i:45017**
Dragomir, S. S. (*with* Ionescu, Nicoleta M.) The Wendroff type lemmas and applications III. **90k:26026**
Dzhgarkava, D. T. Volterra-Stieltjes type equations with an integral with respect to a finit additive set function. (Russian. English and Georgian summaries) **90e:34004**
Eggermont, P. P. B. Uniform error estimates of Galerkin methods for monotone Abel-Volterra integral equations on the half-line. **90h:65216**
Globevnik, J. Zero integrals on circles and characterizations of harmonic and analytic functions. **90e:44001**
Grimmer, R. (*with* Schappacher, W.) Integrodifferential equations in Banach spaces with infinite memory. **90i:45020**
Halvorsen, S. Gotskalk *see* **Mingarelli, A. B., 90a:34002**
Hara, Tadayuki (*with* Yoneyama, Toshiaki; Itoh, Takashi) On the characterization of stability concepts of Volterra integro-differential equations. **90k:45005**
Hausding, Reiner Zur Diskretisierung und numerischen Lösung einer speziellen Faltungs ichung. [On the discretization and numerical solution of a special convolution equation **90m:65234**
Heard, Melvin L. (*with* Rankin, Samuel M., III) Weak solutions for a class of parabolic Volterra integrodifferential equations. **90c:45013**

Hofmann, Bernd On a particular initial value problem, with an application in reservoir analysis. **90a:34010**

Huang, Qing Guang *see* **You, Bing Li, 90h:34108**

Hutson, V. *see* **Burton, Theodore Allen, 90d:58141**

Ionescu, Nicoleta M. *see* **Dragomir, S. S., 90k:26026**

Ispas, Mihai The solutions of some functional equations applicable in technique. (Romanian summary) **90c:45001**

Ito, Kazufumi (*with* Kappel, F.) Approximation of infinite delay and Volterra type equations. **90c:65162**

Itoh, Takashi *see* **Hara, Tadayuki; et al., 90k:45005**

Ivanovici, Marian On the asymptotic behavior of the solutions of a certain implicit Volterra integral equation. (Romanian summary) **90j:45027**

Jackiewicz, Z. *see* **Crisci, M. R.; et al., 90m:65229**

Kantorovitz, Shmuel Volterra systems of operators. **90a:47041**

Kappel, F. *see* **Ito, Kazufumi, 90c:65162**

Kellermann, H. *see* **Arendt, W., 90h:47068**

Khromov, A. P. Generating functions of Volterra integral operators. (Russian) (*see* **90i:00006**)

Khusanov, D. Kh. Principal two-sided solutions of a linear integro-differential equation of Volterra type with infinite aftereffect. (Russian) **90c:45010**

Krisztin, T. (*with* Terjéki, J.) On the rate of convergence of solutions of linear Volterra equations. (Italian summary) **90f:45016**

Lin, Yanping *see* **Cannon, John R., 90c:45012**

Luchka, A. Yu. (*with* Didyk, B. V.) Solution of linear Volterra integral equations of the second kind by the projection-iterative method based on the method of subdomains. (Russian) **90i:45017**

Malyshev, Igor Surface integrals approach to solution of some free boundary problems. II. **90m:35210**

Matsenko, P. K. *see* **Vel′misov, P. A., 90b:45031**

Miller, Richard K. *see* **Desch, W., 90f:93050**

Mingarelli, A. B. (*with* Halvorsen, S. Gotskalk) ★ Nonoscillation domains of differential equations with two parameters. **90a:34002**

Mishchenko, E. V. *see* **Blokhin, A. M., 90a:78001**

Mitidieri, Enzo *see* **Clément, Philippe, 90c:45017**

Noren, Richard Uniform L^1 behavior in a class of linear Volterra equations. **90h:45008**

Okrasiński, W. On subsolutions of a nonlinear diffusion problem. **90h:35220**

Pachpatte, B. G. Existence theorems for nonlinear multivariable systems of Volterra integral equations. **90m:45022**

Papageorgiou, Nikolaos S. Existence and convergence results for integral inclusions in Banach spaces. **90b:45033**

Pulyaev, V. F. On the spectrum of Volterra operators. (Russian) **90f:47041**

Rankin, Samuel M., III *see* **Heard, Melvin L., 90c:45013**

Reich, Simeon Integral equations, hyperconvex spaces and the Hilbert ball. **90d:47066**

Rundell, William Determining the birth function for an age structured population. (French summary) **90b:92055**

Russo, E. *see* **Crisci, M. R.; et al., 90m:65229**

Salakhitdinov, M. S. (*with* Urinov, A. K.) Properties of some operators of Volterra type. (Russian) **90a:47132**

(Samoĭlenko, A. M.) *see* **Differential equations with a parameter, 90k:00018**

Schappacher, W. *see* **Grimmer, R., 90i:45020**

Sforza, Daniela Parabolic integrodifferential equations with nonhomogeneous boundary conditions. **90d:45008**

Shampine, L. F. Solving Volterra integral equations with ODE codes. **90a:65282**

Shirinkulov, T. Sh. *see* **Alimov, Sh. A., 90i:73092**

Shopolov, N. N. A class of Volterra-type linear integral operators. (Bulgarian. English and Russian summaries) **90h:45009**

Stark, Philip B. Strict bounds and applications. **90e:65195**

Sumin, V. I. Volterra functional-operator equations in the theory of the optimal control of distributed systems. (Not in MR)

Terjéki, J. *see* **Krisztin, T., 90f:45016**

Urbanowicz, Jacek A free boundary problem for the bicaloric equation. **90f:35214**

Urinov, A. K. *see* **Salakhitdinov, M. S., 90a:47132**

Vecchio, A. *see* **Crisci, M. R.; et al., 90m:65229**

Ved′, Yu. A. Asymptotic equilibrium of systems of second-order integro-differential equations of Volterra type. (Russian) **90h:45010**

Vel′misov, P. A. (*with* Matsenko, P. K.) Asymptotic behavior of the solutions of an infinite system of integro-differential equations of Volterra type. (Russian) **90b:45031**

Venturino, Ezio Nonlinearly interacting age-dependent populations. **90a:92057**

Wang, Guo An Boundedness of solutions to a class of second-order differential equations. (Chinese. English summary) (*see* **90j:34001**)

— The asymptotic behavior of solutions to linear Volterra integro-differential equations. (Chinese. English summary) (Not in MR)

Wang, Ke^1 Existence of periodic solutions to functional-differential equations. (Chinese) **90j:34103**

Wu, Jian Hong Globally stable periodic solutions of linear neutral Volterra integro-differential equations. **90f:45012**

Yoneyama, Toshiaki *see* **Hara, Tadayuki; et al., 90k:45005**

You, Bing Li (*with* Huang, Qing Guang) Fundamental theory of a class of functional equations and its application in the study of Kneser's theorem. **90h:34108**

Zhang, Shi Sheng (*with* Bian, Wen Ming) Fixed point indexes and its applications to nonlinear integral equations modelling infectious diseases. **90g:47106**

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Differential equations with a parameter ★ Дифференциальные уравнения с параметром. (Russian) [Differential equations with a parameter] **90k:00018**

45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

Items with secondary classifications in 45Exx

Davydov, A. G. *see* **Zakharov, E. V.; et al., 90i:31010**

Khaleeva, I. V. *see* **Zakharov, E. V.; et al., 90i:31010**

Osiv, P. N. *see* **Savruk, M. P.; et al., 90k:73007**

Prokopchuk, I. V. *see* **Savruk, M. P.; et al., 90k:73007**

Savruk, M. P. (*with* Osiv, P. N.; Prokopchuk, I. V.) ★ Численный анализ в плоских задачах теории трещин. (Russian) [Numerical analysis in planar problems in crack theory] **90k:73007**

Zakharov, E. V. (*with* Davydov, A. G.; Khaleeva, I. V.) Integral equations with Hadamard-type kernels in diffraction problems. (Russian) **90i:31010**

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

Alekhno, A. G. On the solvability of a characteristic singular integral equation with an infinite index. **90f:45003**

Avazashvili, N. D. On the solution of a characteristic system of singular integral equations. (Russian) **90b:45007**

Babaev, Arif Aligeidarovich (*with* Musaev, B. I.) Approximate solution of singular integral equations. (Russian) **90d:45002**

Bitsadze, A. V. Integral equations of the linear theory of contact problems. **90b:45008**

— Integral equations of the first kind with singular kernels that are generated by the Schwarz kernel. **90g:45009**

Buslaev, A. G. Solution of an equation of contact interaction. (Russian. English summary) **90i:45008**

Driscoll, Michael A. (*with* Venturino, Ezio) A variational technique for the solution of the singular integral equations over the real line using enriched spaces. **90b:45009**

— (*with* Venturino, Ezio) On the consistency of numerical solutions of singular integral equations of the second kind with negative index using Jacobi polynomials. **90e:45005**

Du, Jin Yuan Singular integral equations with Hilbert kernel and some associated systems of orthogonal trigonometric polynomials. (Chinese. English summary) **90b:45010**

Dyn′kin, E. M. (*with* Emel′yanov, A. P.) A boundary integral equation of elasticity theory on a contour with a cusp. (Russian. English summary) **90b:45011**

Elliott, David Projection methods for singular integral equations. **90m:45007**

Emel′yanov, A. P. *see* **Dyn′kin, E. M., 90b:45011**

Gonsalves, I. R. *see* **Martin, Paul Andrew; et al.**, (Not in MR)

Huang, Xin Min On two-dimensional singular integral equations. (Chinese) **90d:45003**

— On the two-dimensional singular integral equations. **90b:45012**

Lifanov, I. K. Singular solutions of singular integral equations and flow ejecting for an arbitrary contour. **90i:45009**

Martin, Paul Andrew (*with* Rizzo, F. J.; Gonsalves, I. R.) On hypersingular boundary integral equations for certain problems in mechanics. (Not in MR)

Musaev, B. I. *see* **Babaev, Arif Aligeidarovich, 90d:45002**

Nguyễn Văn Mậu Solvability in closed form of a class of complete singular integral equations. **90b:45013**

Paatashvili, V. A. On the Noethericity of linear singular integral equations in weighted Lebesgue spaces. (Russian. English and German summaries) **90j:45010**

Plaksa, S. A. The Riemann boundary value problems with an oscillating free term, and singular integral equations on a rectifiable curve. (Russian) **90e:45006**

— Singular integral equations on a rectifiable curve. (Russian) **90m:45008**

Rasol′ko, G. A. Integral equations of the first kind that contain integrals with multiple Cauchy kernels. (Russian. English summary) **90b:45014**

— *see also* **Sheshko, M. A., 90f:45004**

Rizzo, F. J. *see* **Martin, Paul Andrew; et al.**, (Not in MR)

Sheshko, M. A. (*with* Rasol′ko, G. A.) Exact and approximated formulas for the inversion of a multiple integral with Cauchy kernels. (Russian) **90f:45004**

Venturino, Ezio *see* **Driscoll, Michael A., 90b:45009** *and* **90e:45005**

Zeng, Yue Sheng A class of hypercomplex singular integral equations on rectifiable closed curves. (Chinese. English summary) **90b:45015**

Zhumanov, È. Solution of a singular integral equation with a multidimensional singular Bergman integral operator. (Russian) **90f:45005**

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Aĭmatov, K. Singular solutions of a singular integro-differential equation. (Russian) **90f:45013**

Baĭkuziev, K. B. Estimates for the eigenfunctions of degenerate operators. **90c:34025**

Bantsuri, R. D. (*with* Isakhanov, R. S.) A semi-inverse problem of elasticity theory for a finite doubly connected domain. (Russian) **90d:73011**

Bialecki, Bernard Sinc-Nyström method for numerical solution of a dominant system of Cauchy singular integral equations given on a piecewise smooth contour. **90m:65225**

Can, Mehmet *see* **Khan, Tariq M., 90f:34011**

Cormack, Donald E. *see* **Vijayakumar, Sinnathurai, 90j:65039**

Dodokhova, G. V. A two-dimensional analogue of the Riemann boundary value problem with an infinite index. (Russian) **90d:30115**

Èbanoidze, T. A. A singular integral equation. (Russian) **90b:45020**

El Sheikh, M. G. (*with* Gad-Allah, H. E.) On the reduction of Dirichlet-Newton problems to wing equations. **90e:35136**

Evtushenko, A. A. (*with* Opanasovich, V. K.) A numerical method for solving singular integral equations. (Russian) **90m:65231**

Fan, Tian You Analysis of moving and growing crack coupled by nonlinear deformation. **90e:73102**

Fel′dman, I. A. *see* **Krupnik, N. Ya.; et al., 90m:47014**

Gabdulkhaev, B. G. *see* **Velev, G. D., (90a:41001)**

Gad-Allah, H. E. *see* **El Sheikh, M. G., 90e:35136**

Gerasoulis, Apostolos Nyström's iterative variant methods for the solution of Cauchy singular integral equations. **90k:65193**

Grudskiĭ, S. M. Matrix singular integral operators with infinite index. (Russian) **90e:47043**

Guo, Jian Lin The Poincaré problems for doubly quasiperiodic analytic functions. (Chinese. English summary) **90a:30117**

Isakhanov, R. S. *see* **Bantsuri, R. D., 90d:73011**
Jentsch, Lothar (*with* Meyer, Christian) Ueber eine Klasse singulaerer Integralgleichungen mit zwei feststehenden Singularitaeten. [On a class of singular integral equations with two fixed singularities] **90b:47090**
Kazantzakis, J. G. *see* **Theocaris, P. S., 90b:73017**
Khan, Tariq M. (*with* Can, Mehmet) On the initial value problems for the second Painlevé equation. (Turkish summary) **90f:34011**
Krupnik, N. Ya. (*with* Markus, A. S.; Fel′dman, I. A.) On the norm of a linear combination of projectors in a Hilbert space. (Russian) **90m:47014**
Lu, Jian Ke On crack problems in an infinite plane consisting of three different media. **90g:73105**
Markus, A. S. *see* **Krupnik, N. Ya.; et al., 90m:47014**
McLean, William Hölder estimates for the Cauchy integral on a Lipschitz contour. **90f:30050**
Melrose, G. (*with* Tweed, J.) Some triple trigonometric series. **90b:45019**
Meyer, Christian *see* **Jentsch, Lothar, 90b:47090**
Opanasovich, V. K. *see* **Evtushenko, A. A., 90m:65231**
Prössdorf, Siegfried (*with* Rathsfeld, A.) Quadrature methods for strongly elliptic Cauchy singular integral equations on an interval. **90m:65241**
— Numerische Behandlung singulärer Integralgleichungen. [Numerical treatment of singular integral equations] **90i:65247**
Rathsfeld, A. A quadrature method for a Cauchy singular integral equation with a fixed singularity. **90m:65242**
— *see also* **Prössdorf, Siegfried, 90m:65241**
Strizhkov, V. A. Asymptotic regularization of integral operators of the first kind with power singularity. **90j:45032**
Theocaris, P. S. (*with* Kazantzakis, J. G.) The spectra of some singular integral operators for solving three-dimensional boundary value problems. (Greek summary) **90b:73017**
— Practical procedures and methods for the numerical solution of Cauchy-type singular integral equations. (Greek summary) **90a:65284**
Tweed, J. *see* **Melrose, G., 90b:45019**
Vainikko, Gennadi Piecewise polynomial approximation of a solution of a multidimensional weakly singular integral equation. (Russian. English summary) **90i:65250**
Velev, G. D. (*with* Gabdulkhaev, B. G.) Best approximations of solutions of singular integral equations of first kind. (*see* **90a:41001**)
Verkhovod, D. B. A conjugation boundary value problem for solutions of a quasilinear Beltrami equation on compact Riemann surfaces. (Russian) **90k:30083**
Vijayakumar, Sinnathurai (*with* Cormack, Donald E.) A new concept in near-singular integral evaluation: the continuation approach. **90j:65039**
Zhumanov, È. Solution of a system of singular integral equations with a multidimensional singular integral operator. (Russian) **90e:47053**
Zolotarevskiĭ, V. A. The reduction method for the approximate solution of systems of singular integral equations with vanishing symbols on a closed Lyapunov contour. **90g:65182**
— ConvergAence of the reduction method for singular integral equations on closed Lyapunov contours. (Russian) **90i:65253**

45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

Böttcher, Albrecht L. V. Mikaelyan's conjecture in the theory of Wiener-Hopf determinants. (Russian) **90g:45010**
Burenkov, V. I. (*with* Dorofeev, I. F.; Pankratov, A. S.) Estimates for regularized solutions of equations of convolution type in spaces of functions with a noninteger order of differentiation. **90b:45016**
Chen, Zheng Hong (*with* Zhao, De Hui) An application of the differential characteristic of the convolution integral. (Chinese. English summary) (Not in MR)
Dorofeev, I. F. *see* **Burenkov, V. I.; et al., 90b:45016**
Ermakov, M. S. Minimax estimation of the solution of an ill-posed problem of convolution type. **90k:45001**
Heins, A. E. (*with* Pond, J. M.) The Sommerfeld half-plane problem revisited. IV. Variations on a theme of Carlson and Heins. **90i:45010**
Kaashoek, M. A. (*with* Schermer, J. N. M.) Inversion of convolution equations on a finite interval and realization triples. **90j:45011**
Meister, E. (*with* Speck, F.-O.) Elastodynamic scattering and matrix factorisation. **90c:45005**
Norbury, John (*with* Stuart, A. M.) Corrigendum: "Volterra integral equations and a new Gronwall inequality. I. The linear case" [Proc. Roy. Soc. Edinburgh Sect. A **106** (1987), no. 3-4, 361–373; MR 88m:45004]. **90i:45011**
Pankratov, A. S. *see* **Burenkov, V. I.; et al., 90b:45016**
Poletaev, G. S. Equations and systems of a certain type in rings with factorization pairs. (Russian) **90c:45006**
Pond, J. M. *see* **Heins, A. E., 90i:45010**
Roth, Robert S. Kernel identification using quasilinearization. **90m:45009**
Rubtsov, S. E. An integral equation of thermoelasticity. (Russian) **90f:45006**
Safina, N. M. *see* **Vinokurov, V. A., 90b:45017**
Schermer, J. N. M. *see* **Kaashoek, M. A., 90j:45011**
Speck, F.-O. *see* **Meister, E., 90c:45005**
Stuart, A. M. *see* **Norbury, John, 90i:45011**
Vinokurov, V. A. (*with* Safina, N. M.) A regularized solution in a special case for an equation of convolution type. (Russian) **90b:45017**
Zhao, De Hui *see* **Chen, Zheng Hong,** (Not in MR)

Items with secondary classifications in 45E10

Abrahams, I. D. (*with* Wickham, G. R.) On the scattering of sound by two semi-infinite parallel staggered plates. I. Explicit matrix Wiener-Hopf factorization. **90d:76041**
Anselone, Philip M. (*with* Sloan, I. H.) Numerical solutions of integral equations on the half line. II. The Wiener-Hopf case. **90j:65153**
Bastos, M. A. (*with* dos Santos, A. F.; Lebre, A. B.) On the Fredholm theory of Wiener-Hopf equations and the coupling method. **90f:47033**
Berenstein, Carlos A. (*with* Struppa, Daniele C.) Dirichlet series and convolution equations. **90d:30008**
Chizhov, V. E. Solvability of integral equations for a binary correlative function. (Russian **90b:45032**
Doss, Raouf Two generalizations of Titchmarsh's convolution theorem. **90h:42019**
Ganchev, Alexander Christov (*with* Greenberg, William; van der Mee, C. V. M.) Abstract kinetic equations with accretive collision operators. **90a:47029**
Gienger, Gottlob On convolution quadratures and their applications to Fredholm integral equations of the second kind. **90c:65160**
Gorenflo, Rudolf Nonlinear Abel integral equations: applications, analysis, numerical methods. **90g:45002**
Greenberg, William *see* **Ganchev, Alexander Christov; et al., 90a:47029**
Hurd, R. A. *see* **Speck, F.-O.; et al., 90h:35066**
Kasahara, Masao *see* **Morii, Masakatu; et al., 90m:94038**
Lebre, A. B. *see* **Bastos, M. A.; et al., 90f:47033**
Litvinchuk, G. S. (*with* Spitkovskiĭ, I. M.) ★ Factorization of measurable matrix function **90g:47030**
(Luderer, B.) *see* **Litvinchuk, G. S., 90g:47030**
van der Mee, C. V. M. *see* **Ganchev, Alexander Christov; et al., 90a:47029**
Meister, E. (*with* Speck, F.-O.) Boundary integral equation methods for canonical problems in diffraction theory (invited contribution). **90a:35058**
— *see also* **Speck, F.-O.; et al., 90h:35066**
Morii, Masakatu (*with* Kasahara, Masao; Whiting, Douglas L.) Efficient bit-serial multiplication and the discrete-time Wiener-Hopf equation over finite fields. **90m:94038**
Nakamura, Yoshimasa Solution space of discrete Wiener-Hopf equations and Grassmann manifold. **90b:58109**
Päivärinta, L. (*with* Rempel, S.) A deconvolution problem with the kernel $1/|x|$ on the plane. **90e:47049**
Rempel, S. *see* **Päivärinta, L., 90e:47049**
Rojas, Roberto G. Wiener-Hopf analysis of the EM diffraction by an impedance discontinu ity in a planar surface and by an impedance half-plane. **90h:78015**
Rong, Er Qian A new solution for the space crack problem from hypersingular integral equation. **90k:73070**
dos Santos, A. F. (*with* Teixeira, F. S.) The Sommerfeld problem revisited: solution spaces and the edge conditions. **90m:78013**
— *see also* **Bastos, M. A.; et al., 90f:47033**
Schneider, Claus On weakly singular integral equations of the second kind. **90b:45004**
Shen, C. Y. (*with* White, Stevan R.) Theory of collectively compact operators applied to a one-dimensional electromagnetic scattering problem. **90c:78020**
(Silbermann, Bernd) *see* **Litvinchuk, G. S., 90g:47030**
Sloan, I. H. *see* **Anselone, Philip M., 90j:65153**
Speck, F.-O. (*with* Hurd, R. A.; Meister, E.) Sommerfeld diffraction problems with third kind boundary conditions. **90h:35066**
— *see also* **Meister, E., 90a:35058**
Spitkovskiĭ, I. M. *see* **Litvinchuk, G. S., 90g:47030**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 90d:30008**
Teixeira, F. S. *see* **dos Santos, A. F., 90m:78013**
Tuzik, A. I. Discrete equations of convolution type that reduce to four-element boundary value problems with Carleman shift. (Russian. English summary) **90a:39009**
Uba, P. Approximate solution of a weakly singular integral equation with a discontinuous coefficient. (Russian. English summary) **90i:65249**
Verduyn Lunel, S. M. ★ Exponential type calculus for linear delay equations. **90j:34099**
Volgin, L. N. A simplified method for solving infinite systems of linear algebraic equations of Toeplitz type. (Russian) **90a:47071**
White, Stevan R. *see* **Shen, C. Y., 90c:78020**
Whiting, Douglas L. *see* **Morii, Masakatu; et al., 90m:94038**
Wickham, G. R. *see* **Abrahams, I. D., 90d:76041**
Widom, Harold On Wiener-Hopf determinants. **90m:47044**
Zinterhof, Peter Über die schnelle Lösung von hochdimensionalen Fredholm-Gleichungen vom Faltungstyp mit zahlentheoretischen Methoden. [On the fast solution of higher-dimensional Fredholm equations of convolution type by means of number-theoretic methods] **90c:65164**

45E99 None of the above, but in this section

Chakrabarti, Aloknath Solution of two singular integral equations arising in water wave problems. **90j:45012**
Chernokozhin, E. V. *see* **Il′inskiĭ, A. S., 90h:45002**
Il′inskiĭ, A. S. (*with* Chernokozhin, E. V.) Regularization of an integral operator with logarithmic singularities of the kernel. **90h:45002**

Items with secondary classifications in 45E99

Eissa, R. P. Riemann boundary value problem and singular integral equations on a new class of functions. **90a:30116**
Kamalyan, A. G. (*with* Nersesyan, A. B.) Integral operators of smooth transfer type. **90h:47095**
Karlovich, Yu. I. (*with* Litvinchuk, G. S.) Algebras of singular integral operators with discrete groups of shifts. (Russian) **90d:47055**
Kostrykin, V. V. *see* **Kvitsinskiĭ, A. A.; et al., 90e:81253**
Kvitsinskiĭ, A. A. (*with* Kostrykin, V. V.; Merkur′ev, S. P.) Faddeev equations in the representation of a complete orbital moment. **90e:81253**
Litvinchuk, G. S. *see* **Karlovich, Yu. I., 90d:47055**
Merkur′ev, S. P. *see* **Kvitsinskiĭ, A. A.; et al., 90e:81253**
Nersesyan, A. B. *see* **Kamalyan, A. G., 90h:47095**

45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

Sartabanov, Zh. A pseudoperiodic solution of a system of integro-differential equations. **90b:45018**

45F10 Dual, triple, etc., integral and series equations

Ahuja, Gopi *see* **Mehra, A. N., 90a:45005**
Chakrabarti, Aloknath On some dual integral equations involving Bessel function of order one. **90g:45011**
Cherskiĭ, Yu. I. A multidimensional dual equation of convolution type and its transposition. **90e:45007**
Grabovskiĭ, B. A. (*with* Korsunskiĭ, V. M.; Odarich, O. N.) On a system of integral equations that describes the electron transport process in a two-layer target. (Russian) **90h:45003**
Grigor′ev, Yu. A. Solvability of a system of equations of convolution type. (Russian. English and Georgian summaries) **90i:45012**
Korsunskiĭ, V. M. *see* **Grabovskiĭ, B. A.; et al., 90h:45003**
Mehra, A. N. (*with* Ahuja, Gopi) A formal solution of dual integral equations by using L and L^{-1} operators. **90a:45005**
Melrose, G. (*with* Tweed, J.) Some triple trigonometric series. **90b:45019**
Mullikin, T. W. A stability analysis of the Chandrasekhar reflection equation in radiative transfer. **90k:45002**
Nguyễn Văn Ngọc On the solvability of dual integral equations involving Fourier transform. **90j:45013**
Odarich, O. N. *see* **Grabovskiĭ, B. A.; et al., 90h:45003**
Srivastava, Namita On triple integral equations involving Bessel function as kernel. **90c:45007**
Tweed, J. *see* **Melrose, G., 90b:45019**

Items with secondary classifications in 45F10

Aĭzikovich, S. M. (*with* Trubchik, I. S.) Asymptotic properties of an approximate solution of a class of dual integral equations. **90c:73114**
— (*with* Trubchik, I. S.) Asymptotic properties of an approximate solution of a class of dual integral equations. **90k:45008**
Cox, Dennis D. *see* **Nychka, Douglas W., 90g:62087**
Nychka, Douglas W. (*with* Cox, Dennis D.) Convergence rates for regularized solutions of integral equations from discrete noisy data. **90g:62087**
Trubchik, I. S. *see* **Aĭzikovich, S. M., 90c:73114** *and* **90k:45008**

45F15 Systems of singular linear integral equations

Items with secondary classifications in 45F15

Hsiao, George C. (*with* Wendland, W. L.) On the low frequency asymptotics of the exterior 2-D Dirichlet problem in dynamic elasticity. **90k:73029**
Natroshvili, D. G. Third and fourth boundary value problems in anisotropic elasticity theory. (Russian) **90e:73033**
Spitkovskiĭ, I. M. (*with* Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,\rho}$ and some of its applications. **90k:47057**
Su, Ching-Chuan Electromagnetic scattering by a dielectric body with arbitrary inhomogeneity and anisotropy. **90g:78022**
Tashbaev, A. M. *see* **Spitkovskiĭ, I. M., 90k:47057**
Wendland, W. L. *see* **Hsiao, George C., 90k:73029**
Zhou, Xin The Riemann-Hilbert problem and inverse scattering. **90i:34046**

45Gxx Nonlinear integral equations [see also 47Hxx]

Items with secondary classifications in 45Gxx

Kelley, C. T. (*with* Northrup, J. I.) A pointwise quasi-Newton method for integral equations. **90e:65190**
Northrup, J. I. *see* **Kelley, C. T., 90e:65190**

45G05 Singular nonlinear integral equations

Èbanoidze, T. A. A singular integral equation. (Russian) **90b:45020**
Khusnutdinov, R. Sh. Solutions of a class of nonlinear singular integro-differential equations with a shift. **90h:45004**
Lifanov, I. K. (*with* Poltavskiĭ, L. N.) The generalized Hilbert operator. **90j:45014**
Nguyễn Đăng Tuấn On a class of nonlinear singular integral equations with a shift on a real segment. (Vietnamese. Russian summary) **90j:45015**
Poltavskiĭ, L. N. *see* **Lifanov, I. K., 90j:45014**
Rzaev, R. M. A nonlinear singular integral equation. (Russian) (*see* **90d:00046**)
Sherman, D. I. On the inversion of singular integral equations to which certain particular problems of potential theory reduce. **90c:45008**

Items with secondary classifications in 45G05

Amer, S. M. *see* **Saleh, M. H., 90b:45030**
Baĕkova, S. O. (*with* Turbaev, B. E.) Periodic solutions of nonlinear integro-differential equations of Volterra type of unsolved form. (Russian) (*see* **90d:00011**)
Boĭkov, I. V. (*with* Mantula, A. P.) Some methods for solving singular integral equations of wing theory. (Russian) **90g:76006**
Cochran, James A. Refined eigenvalue estimates in the case of Lipschitz continuity. **90j:45004**
Đặng Đình Áng (*with* Folias, Tim; Keinert, Fritz; Stenger, Frank) Viscoplastic flow due to penetration: a free boundary value problem. (French summary) **90c:35203**
Flandoli, Franco A new proof of an a priori estimate arising in boundary control theory. (Not in MR)
Folias, Tim *see* **Đặng Đình Áng; et al., 90c:35203**
Galanov, B. A. Solvability in Lebesgue spaces of nonlinear boundary equations of one-sided contact problems in elasticity theory. (Russian) **90e:73115**
Gorenflo, Rudolf Nonlinear Abel integral equations: applications, analysis, numerical methods. **90g:45002**
Keinert, Fritz *see* **Đặng Đình Áng; et al., 90c:35203**
Mantula, A. P. *see* **Boĭkov, I. V., 90g:76006**
Povolotskiĭ, A. I. Hammerstein equations with a matrix parameter. (Russian) **90b:47112**
Saleh, M. H. (*with* Amer, S. M.) Approximate solution of a certain class of nonlinear singular integral equations. **90b:45030**
Sorokin, A. S. The homogeneous Keldysh-Sedov problem for multiply connected circular domains in the Muskhelishvili class h_0. **90e:30072**
Stenger, Frank *see* **Đặng Đình Áng; et al., 90c:35203**
Strain, John Velocity effects in unstable solidification. **90k:80016**
Turbaev, B. E. *see* **Baĕkova, S. O., (90d:00011)**

45G10 Other nonlinear integral equations

Aly, Z. M. M. *see* **Zaghrout, Afaf A. S., 90a:45006**
Aminov, R. Kh. (*with* Gabdulkhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. **90b:45021**
Czarniak, A. Sufficient conditions for the convergence of Volterra series for a certain class of nonlinear networks. (*see* **90m:94004**)
Erbe, L. H. (*with* Kong, Qing Kai) Oscillation of Volterra-Stieltjes equations. **90m:45010**
Gabdulkhaev, B. G. *see* **Aminov, R. Kh., 90b:45021**
Guo, Da Jun Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. **90k:45003**
— Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. **90m:45011**
Han, Qi Heng The properties of the spectra of a class of nonlinear integral equations. (Chinese. English summary) (Not in MR)
Hofmann, Bernd On a class of ill-posed integral equations with curious properties. (German summary) **90g:45012**
Kalitvin, A. S. *see* **Povolotskiĭ, A. I., (90d:00009)**
Kong, Qing Kai *see* **Erbe, L. H., 90m:45010**
Povolotskiĭ, A. I. (*with* Kalitvin, A. S.) Solvability of equations of Hammerstein type with partial integrals. (Russian) (*see* **90d:00009**)
Robinson, P. D. (*with* Yuen, P. K.) Bivariational methods for Hammerstein integral equations. **90i:45013**
Stetsenko, V. Ya. Theorems of Hicks, Le Chatelier and Samuelson type for integral equations with concave nonlinearities. (Russian. Tajiki summary) (Not in MR)
Sun, Jing Xian The existence of positive solutions for nonlinear Hammerstein integral equations, and their applications. (Chinese) **90d:45004**
Ushakov, N. G. A class of nonlinear integral equations. (Russian) **90m:45012**
Vâţă, Petre On the existence of the solution of a class of Hammerstein nonlinear integral equations. (French and Romanian summaries) **90e:45008**
Vatsya, S. R. Existence of the solution of a nonlinear integro-differential equation. (Not in MR)
Yuen, P. K. *see* **Robinson, P. D., 90i:45013**
Zaghrout, Afaf A. S. (*with* Aly, Z. M. M.) A note on nonlinear integral equations. **90a:45006**

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Alymbaev, A. T. Periodic solution of a system of nonlinear integro-differential equations. (Russian) **90g:45016**
Argyros, Ioannis K. On the number of solutions of some integral equations arising in radiative transfer. **90h:85004**
Arino, O. (*with* Kimmel, M.) Asymptotic behavior of a nonlinear functional-integral equation of cell kinetics with unequal division. **90h:92008**
Atkinson, K. E. (*with* Potra, F. A.) The discrete Galerkin method for nonlinear integral equations. **90b:65244**
Balachandran, Krishnan Existence of solution for nonlinear Volterra integral equation with deviating argument. **90d:45001**
Banaś, Józef Integrable solutions of Hammerstein and Urysohn integral equations. **90a:47155**
— (*with* Knap, Zygmunt) Integrable solutions of a functional-integral equation. **90g:47111**
Barut, A. O. The Schrödinger and the Dirac equation—linear, nonlinear and integrodifferential. **90h:81019**
Hącia, Lechosław Approximate solutions to the system of Hammerstein integral equations. **90f:45015**
Ivanovici, Marian On the asymptotic behavior of the solutions of a certain implicit Volterra integral equation. (Romanian summary) **90j:45027**
Joshi, S. R. *see* **Shendge, G. R., 90h:34106**
Kimmel, M. *see* **Arino, O., 90h:92008**
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Luchka, A. Yu. A boundary value problem for differential equations with parameters and its solution by the projection method. (Russian. English summary) **90j:34031**
Mandhyan, Indur Examples of global normal forms for some simple nonlinear integral operators. **90i:58011**
Okrasiński, W. On a nonlinear ordinary differential equation. **90d:34012**
Potra, F. A. *see* **Atkinson, K. E., 90b:65244**
Saranen, Jukka (*with* Seikkala, Seppo) On second order two point boundary value problems. (*see* **90j:00016**)
Seidman, Thomas I. (*with* Vogel, Curtis R.) Well-posedness and convergence of some regularisation methods for nonlinear ill posed problems. **90d:65117**
Seikkala, Seppo *see* **Saranen, Jukka, (90j:00016)**
Shendge, G. R. (*with* Joshi, S. R.) On functional integral inequalities. **90h:34106**
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Urbanowicz, Jacek A free boundary problem for the bicaloric equation. **90f:35214**
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Zrazhevskaya, V. F. Existence of a solution of a nonlinear integro-differential equation that is encountered in the theory of long waves. (Russian. English summary) **90h:76031**

45H05 Miscellaneous special kernels [see also 44A15]

Agrawal, R. K. (*with* Joshi, B. K.) An integral equation related to heat equation. (Hindi. English summary) **90m:45013**
Din′ Khoang An′ Integral equations with the Legendre function in the kernels in special cases. (Russian. English summary) **90h:45005**
Engibaryan, N. B. *see* **Vardanyan, R. S., 90g:45013**
Estrada, Ricardo (*with* Kanwal, R. P.) Integral equations with logarithmic kernels. **90f:45007**
Evdokimov, A. A. The factorization method in the solution of an integral equation of a special form. (Russian) **90e:45009**
Joshi, B. K. *see* **Agrawal, R. K., 90m:45013**
Kanwal, R. P. *see* **Estrada, Ricardo, 90f:45007**
Komarnitskiĭ, A. L. Equations of convolution type with kernels that have a scalene power decrease. (Russian) **90j:45016**
Prabha, Km. Solving integral equation of n-variables by $\mathscr{L}$ and $\mathscr{L}^{-1}$ operators. **90m:45014**
Savel′ev, M. V. Integro-differential nonlinear equations associated with continual Lie algebras. (*see* **90m:81002**)
Sloan, I. H. *see* **Yan, Yi, 90f:45008**
Sun, Zhao Ying Proof of a theorem of the nonhomogeneous linear integral equation with a degenerate kernel. (Not in MR)
Vardanyan, R. S. (*with* Engibaryan, N. B.) Solution of a class of integral equations of convolution type. (Russian) **90g:45013**
Vasilets, S. I. Solution in closed form of an integral equation of the first kind with a logarithmic kernel. (Russian. English summary) **90g:45014**
Yan, Yi (*with* Sloan, I. H.) On integral equations of the first kind with logarithmic kernels. **90f:45008**

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Babeshko, V. A. (*with* Smirnova, A. V.) On the solution of an integral equation of the first kind of a special form. (Russian) **90f:73049**
Bitsadze, A. V. Integral equations of the first kind with singular kernels that are generated by the Schwarz kernel. **90g:45009**
Chernokozhin, E. V. *see* **Il′inskiĭ, A. S., 90h:45002**
Davydov, A. G. *see* **Zakharov, E. V.; et al., 90i:31010**
Desch, W. (*with* Miller, Richard K.) Exponential stabilization of Volterra integral equations with singular kernels. **90f:93050**
Du, Jin Yuan Quadrature formulas for singular integrals with Hilbert kernel. **90b:41049**
— Numerical solutions for singular integral equations with Hilbert kernels. **90h:65215**
Il′inskiĭ, A. S. (*with* Chernokozhin, E. V.) Regularization of an integral operator with logarithmic singularities of the kernel. **90h:45002**
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Lifanov, I. K. Singular solutions of singular integral equations and flow ejecting for an arbitrary contour. **90i:45009**
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Nédélec, J.-C. Approximation of integral equations with nonintegrable kernels. **90b:65250**
Nimatov, Kh. An integral equation of the first kind. **90b:45001**
Richter, Gerhard Random Fredholm integral equations of the second kind with degenerate kernels. II. Bounds for probabilities. **90j:65160**
Smirnova, A. V. *see* **Babeshko, V. A., 90f:73049**
Srivastava, Namita On triple integral equations involving Bessel function as kernel. **90c:45007**
Zakharov, E. V. (*with* Davydov, A. G.; Khaleeva, I. V.) Integral equations with Hadamard-type kernels in diffraction problems. (Russian) **90i:31010**

45J05 Integro-ordinary differential equations

Al-Bassam, M. A. A unified class of differential equations. **90g:45015**
Alymbaev, A. T. Periodic solution of a system of nonlinear integro-differential equations. (Russian) **90g:45016**
Antonevich, A. B. (*with* Khodzhaĭ, I.) A class of integro-difference equations with oscillating coefficients. (Russian) **90j:45017**
Appell, Jürgen (*with* Diallo, O. W.; Zabreĭko, P. P.) On linear integro-differential equations of Barbashin type in spaces of continuous and measurable functions. **90a:45007**
Atkinson, F. V. (*with* Haddock, J. R.) On determining phase spaces for functional-differential equations. **90f:45009**
Baĕkova, S. O. (*with* Turbaev, B. E.) Periodic solutions of nonlinear integro-differential equations of Volterra type of unsolved form. (Russian) (*see* **90d:00011**)
Baĭdzhanov, A. (*with* Esimov, T. A.) Asymptotic behavior of the solution of a boundary value problem for a nonlinear integro-differential equation with a small parameter multiplying the highest derivative. (Russian. Kazakh summary) **90c:45009**
Bobochko, V. N. (*with* Novakovskaya, L. I.) Analogues of Fredholm theorems for a singularly perturbed integro-differential equation. (Russian) **90i:45014**
Brunner, Hermann The approximate solution of nonlinear Volterra integro-differential equations with infinite delay. **90k:45004**
Bulatov, R. A. The method of equivalent correspondence in nonlinear integro-differential equations. (Russian) **90h:45006**
Chizhov, V. E. On an integral equation for a binary correlation function. (Russian) **90m:45015**
Diallo, O. W. *see* **Appell, Jürgen; et al., 90a:45007**
Esimov, T. A. *see* **Baĭdzhanov, A., 90c:45009**
Finkel′, L. A. Construction of a transformation operator for Sturm-Liouville integro-differential equations and its application. (Russian) **90d:45005**
Glushko, E. G. Conditions for the uniqueness of a solution of an integro-differential equation. (Russian) (*see* **90a:00007**)
Grudo, È. I. On the theory of a class of linear integro-differential equations. **90h:45007**
Gul′ka, S. S. Averaging in systems of integro-differential equations with impulse action. (Russian) **90g:45017**
Haddock, J. R. *see* **Atkinson, F. V., 90f:45009**
Hamaya, Yoshihiro Periodic solutions of nonlinear integro-differential equations. **90b:45022**
Hara, Tadayuki (*with* Yoneyama, Toshiaki; Itoh, Takashi) On the characterization of stability concepts of Volterra integro-differential equations. **90k:45005**
Igumnov, V. P. Construction of solutions of systems of integro-differential equations in the form of Lie series. (Not in MR)
Imamkulov, N. (*with* Narmuratov, Kh.; Rabimov, A. S.) Solution of an initialization problem for a frozen second-order integro-differential equation with variable coefficients. (Russian) **90f:45010**
Iskandarov, S. *see* **Pakhyrov, Z., 90e:45010**
Itoh, Takashi *see* **Hara, Tadayuki; et al., 90k:45005**
Ivanyuk, N. V. Application of the averaging method for systems of integro-differential equations with multivalued impulse action. (Russian) (*see* **90d:00011**)
Khavanin, Mohammad The method of mixed monotony for first order nonlinear integro-differential systems. **90k:45006**
Khodzhaĭ, I. *see* **Antonevich, A. B., 90j:45017**
Khusanov, D. Kh. Principal two-sided solutions of a linear integro-differential equation of Volterra type with infinite aftereffect. (Russian) **90c:45010**
Lakshmikantham, V. (*with* Liu, Xinzhi; Sathananthan, S.) Impulsive integro-differential equations and extension of Lyapunov's method. **90m:45016**
Li, Yu Mei A class of nonlinear boundary value problems for fourth order integro-differential equations. (Chinese. English summary) (Not in MR)
Liu, Xinzhi *see* **Lakshmikantham, V.; et al., 90m:45016**
Nadirov, A. A. An integro-differential equation with an eigenvalue parameter in the boundary conditions. (Russian. English and Azerbaijani summaries) (Not in MR)
Narmuratov, Kh. *see* **Imamkulov, N.; et al., 90f:45010**
Noren, Richard Uniform L^1 behavior in classes of integrodifferential equations with convex kernels. **90j:45018**
— Uniform L^1 behavior in a class of linear Volterra equations. **90h:45008**
Normuratov, Kh. Solution of an initialization problem for systems of second-order integro-differential equations that contain multiple integrals. (Russian) **90c:45011**
— Solution of an initialization problem for systems of integro-differential equations that contain multiple integrals. (Russian) (*see* **90h:00010**)
— (*with* Sharova, L. V.) An estimate for the remainder term in an initialization problem for systems of second-order integro-differential equations. (Russian) **90j:45019**
Novakovskaya, L. I. The Cauchy problem for a singularly perturbed integro-differential equation with a nonstable spectrum. **90m:45017**
— Singularly perturbed integro-differential equations with an unstable spectrum. **90i:45015**
— *see also* **Bobochko, V. N., 90i:45014**
Pakhyrov, Z. (*with* Iskandarov, S.) On the boundedness of solutions of a first-order nonlinear integro-differential equation of Volterra type. (Russian) **90e:45010**
Plotnikov, V. A. (*with* Rudyk, O. G.) A scheme for averaging integro-differential inclusions. (Russian) **90j:45020**
— (*with* Rudyk, O. G.) An averaging scheme in integro-differential equations. **90m:45018**
Rabimov, A. S. *see* **Imamkulov, N.; et al., 90f:45010**
Rakin, L. V. On the problem of measuring acceleration by means of a string accelerometer. (Russian) **90m:45019**
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Ryabov, Yu. A. Two-sided solutions of linear integro-differential equations of Volterra type with an infinite lower limit. (Russian) **90f:45011**
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Shishkin, G. A. Formulation and solution of linear boundary value problems for Fredholm integro-differential equations with deviating argument. (Russian) (*see* **90a:00007**)
Shopolov, N. N. A class of Volterra-type linear integral operators. (Bulgarian. English and Russian summaries) **90h:45009**
Talipova, L. A. Conditions for the existence of periodic solutions of a homogeneous integro-differential equation in the critical case. (Russian) (*see* **90a:45001**)
Turbaev, B. E. *see* **Baĕkova, S. O., (90d:00011)**
Ved′, Yu. A. Asymptotic equilibrium of systems of second-order integro-differential equations of Volterra type. (Russian) **90h:45010**
Vlasov, V. V. Solvability of boundary value problems for a class of integro-differential equations on the half-axis. **90m:45020**
— Boundary value problems for a class of integro-differential equations and related spectral problems. **90b:45023**
Wu, Jian Hong Periodic solutions of nonconvolution neutral integrodifferential equations. **90b:45024**
— Globally stable periodic solutions of linear neutral Volterra integro-differential equations **90f:45012**
Yoneyama, Toshiaki *see* **Hara, Tadayuki; et al., 90k:45005**
Yunusov, M. K. Solution of a class of integro-differential problems. (Russian. Tajiki summary) (Not in MR)
Zabreĭko, P. P. *see* **Appell, Jürgen; et al., 90a:45007**

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Akhmadiev, M. G. Approximation by polynomials of solutions of a singular integro-differential equation. (Russian) (*see* **90i:00006**)
Akulenko, L. D. Investigation of quasilinear oscillations of mechanical systems with distributed and lumped parameters. **90b:73024**
Allen, E. J. (*with* Victory, H. D., Jr.; Ganguly, Keshab) On the convergence of finite-differenced multigroup, discrete-ordinates methods for anisotropically scattering slab media. **90h:65214**
Arino, O. (*with* Kimmel, M.) On some nonlinear effects in a model of population dynamic **90m:92045**

Asanov, A. Uniqueness of a solution of Volterra operator equations. (Russian) **90e:45017**
Atdaev, S. On a method of two-sided approximations for systems of integro-differential equations. (Russian) (*see* **90d:00022**)
— A remark on the convergence of two-sided approximations for integro-differential equations. (Russian) (Not in MR)
Babenko, K. I. (*with* Petrovich, V. Yu.; Rakhmanov, A. I.) A computational experiment in the theory of surface waves of finite amplitude. **90f:76022**
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Bardos, Claude Diffusion approximation and the Milne problem computation of the boundary layer. **90c:35130**
Brandon, Deborah (*with* Hrusa, W. J.) Construction of a class of integral models for heat flow in materials with memory. **90b:80004**
Chan Khy·u Bong Normal solvability of linear differential operators with retarded argument in a space of functions bounded on the line. (Russian. Tajiki summary) **90d:47052**
— Fredholm property of linear differential operators with retarded argument in the space of functions bounded on the axis. (Russian. Tajiki summary) **90d:47053**
Derbenev, V. A. On the problem of the asymptotic behavior of solutions of integro-differential equations with a difference kernel. (Russian) **90f:45018**
Desch, W. (*with* Grimmer, R.; Schappacher, W.) Propagation of singularities by solutions of second order integrodifferential equations. **90j:45029**
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Farkas, A. (*with* Farkas, M.) Stable oscillations in a more realistic predator-prey model with time lag. (Russian summary) **90b:92060**
Farkas, M. *see* **Farkas, A., 90b:92060**
Ganchev, Alexander Christov (*with* Greenberg, William; van der Mee, C. V. M.) Abstract kinetic equations with accretive collision operators. **90a:47029**
Ganguly, Keshab *see* **Allen, E. J.; et al., 90h:65214**
Garey, L. E. (*with* Gilmore, K. A.; Gladwin, C. J.) Direct methods for second order Fredholm integro-differential equations with two point boundary conditions. **90e:45001**
— (*with* Gladwin, C. J.) Numerical methods for second order Volterra integro-differential equations with two-point boundary conditions. **90f:65237**
Gilmore, K. A. *see* **Garey, L. E.; et al., 90e:45001**
Gladwin, C. J. *see* **Garey, L. E.; et al., 90e:45001** *and* **90f:65237**
Greenberg, William *see* **Ganchev, Alexander Christov; et al., 90a:47029**
Grimmer, R. (*with* Schappacher, W.) Integrodifferential equations in Banach spaces with infinite memory. **90i:45020**
— *see also* **Desch, W.; et al., 90j:45029**
Helmi, M. S. *see* **Shoaeb, A. M., 90e:85008**
Hino, Yoshiyuki (*with* Murakami, Satoru) Periodic solutions of a linear Volterra system. **90m:45005**
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Kaĭshibaeva, G. K. (*with* Sultangazin, U. M.) Asymptotic behavior of the solution of a boundary value problem for a nonstationary system of equations of the method of spherical harmonics. (Russian) **90d:35049**
Karpenko, S. F. Approximate solution of the Lyapunov-Lichtenstein equations by means of an approximation-iteration method. **90k:45009**
Khachatryan, A. Kh. Nonlinear problems of incoherent scattering in the presence of internal sources. (Russian. English and Armenian summaries) (Not in MR)
Kim, Dae Sung Existence and uniqueness of solution of a type of stochastic integro-differential equation. (Korean. English summary) **90a:60115**
Kimmel, M. *see* **Arino, O., 90m:92045**
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Krisztin, T. Uniform asymptotic stability of a class of integrodifferential systems. **90g:45022**
Lakshmikantham, V. Stability results for integrodifferential equations. **90j:45028**
Lange, Charles G. (*with* Smith, Donald Ray) Singular perturbation analysis of integral equations. **90m:45001**
Liu, Qing Rong (*with* Sun, Wan Gui) Nonnegative solutions of a class of integro-differential equations with a parameter. (Chinese. English summary) (Not in MR)
Liu, Xinzhi Nonlinear boundary value problems for first order impulsive integro-differential equations. **90m:34047**
Medzhitov, M. A special case of averaging. (Russian) **90c:34049**
van der Mee, C. V. M. *see* **Ganchev, Alexander Christov; et al., 90a:47029**
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Murakami, Satoru *see* **Hino, Yoshiyuki, 90m:45005**
Murty, K. N. (*with* Srinivas, M. A. S.; Narasimham, V. A.) Asymptotic behaviour of solutions of matrix integro-differential equations. **90e:45014**
Narasimham, V. A. *see* **Murty, K. N.; et al., 90e:45014**
Obolashvili, E. I. Solution of nonlocal problems in plane elasticity theory. (Russian) **90e:73044**
O'Cinneide, C. *see* **Jackiewicz, Z.; et al., 90g:45019**
Petrovich, V. Yu. *see* **Babenko, K. I.; et al., 90f:76022**
Prüss, J. Linear hyperbolic Volterra equations of scalar type. **90i:45021**
Pupyshev, V. V. On the theory of integro-differential three-particle equations. **90i:81164**
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Reynolds, D. W. Bifurcation of harmonic solutions of an integro-differential equation modelling resonant sloshing. **90c:34044**
Rigas, A. G. Identification of a nonlinear, stochastic, and integral equation. (*see* **90f:00003**)
Santini, P. M. Bi-Hamiltonian formulations of the intermediate long wave equation. **90j:58065**
Schappacher, W. *see* **Grimmer, R., 90i:45020** *and* **Desch, W.; et al., 90j:45029**
Sforza, Daniela Regularity results for an integrodifferential equation of convolution type in Hilbert space. **90i:45022**
Shoaeb, A. M. (*with* Helmi, M. S.) On the exact solution of the radiative transfer equation in astrophysics. (Arabic summary) **90e:85008**
Sivasundaram, S. *see* **Elaydi, S., 90j:45006**
Smith, Donald Ray *see* **Lange, Charles G., 90m:45001**
So, Gi Yong Singular integro-differential equation with shift and conjugate complex functions of the unknown function. (Korean. English summary) **90a:47133**
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Sultangazin, U. M. *see* **Kaĭshibaeva, G. K., 90d:35049**
Sun, Wan Gui *see* **Liu, Qing Rong,** (Not in MR)
Talpalaru, Pavel Equivalence of multivalued integro-differential systems. **90f:34024**
Thakur, L. B. On stochastic integrodifferential equations in a Banach space. **90c:60039**
Trench, William F. Efficient application of the Schauder-Tychonoff theorem to functional perturbations of $x^{(n)} = 0$. **90d:39010**
Tuzinkevich, A. V. Qualitative investigation of the dynamics of an integro-differential equation. (Russian) **90a:58022**
Victory, H. D., Jr. *see* **Allen, E. J.; et al., 90h:65214**
Yoshizawa, Taro Some remarks on stability properties in integro-differential equations. (*see* **90j:00016**)
Zhang, Yi[1] Stability of Volterra integro-differential equations. (Chinese. English summary) **90i:45019**

45K05 Integro-partial differential equations

Acquistapace, Paolo (*with* Terreni, Brunello) Quasilinear parabolic integrodifferential systems with fully nonlinear boundary conditions. **90j:45021**
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45L10 Numerical approximation of solutions {For numerical analysis, see 65R20.}

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Argyros, Ioannis K. On the number of solutions of some integral equations arising in radiative transfer. **90h:85004**

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45L99 None of the above, but in this section

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45Mxx Qualitative behavior

45M05 Asymptotics

Al-Zanaidi, M. *see* **Singh, Mahendra Pal, 90d:45009**

Antonishin, I. O. On the asymptotic behavior of a nonlinear Volterra integro-differential equation. (Russian) **90e:45013**

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Ivanovici, Marian On the asymptotic behavior of the solutions of a certain implicit Volterra integral equation. (Romanian summary) **90j:45027**

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— Asymptotic behaviour of parabolic equations with infinite delay. **90i:34117**

Noren, Richard Uniform L^1 behavior in a class of linear Volterra equations. **90h:45008**

Sharipov, R. A. *see* **Bikbaev, R. F., 90i:35227**

45M10 Stability theory

Fedorenko, I. V. *see* **Golubeva, V. V., (90a:00005)**

Gaponenko, Yu. L. (*with* Logunov, S. L.) Stability of the solution of an integral equation of the first kind on bounded and compact sets. (Russian) **90g:45020**

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Kogut, P. I. Optimal stabilization of a nonlinear system of integro-differential equations of nonstationary aero-auto-elasticity. (Russian) **90g:45021**

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45M99 None of the above, but in this section

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Ch'ên, Hung I A Levin type comparison theorem and oscillation results for Volterra-Stieltjes integral equations. **90g:45005**

45N05 Abstract integral equations, integral equations in abstract spaces

Asanov, A. Uniqueness of a solution of Volterra operator equations. (Russian) **90e:45017**

Chizhov, V. E. Solvability of integral equations for a binary correlative function. (Russian) **90b:45032**

Clément, Philippe (*with* Mitidieri, Enzo) Qualitative properties of solutions of Volterra equations in Banach spaces. **90c:45017**

Cong, Shu Fan A uniqueness theorem for nonlinear integro-differential equations in a Banach space under a Kamke functional type condition. (Chinese. English summary) **90f:45020**

Desch, W. (*with* Grimmer, R.; Schappacher, W.) Propagation of singularities by solutions of second order integrodifferential equations. **90j:45029**

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— *see also* **Desch, W.; et al., 90j:45029**

Mitidieri, Enzo (*with* Tosques, M.) Nonlinear integrodifferential equations in Hilbert space: the variational case. **90j:45030**

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Papageorgiou, Nikolaos S. Existence and convergence results for integral inclusions in Banach spaces. **90b:45033**

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Items with secondary classifications in 45N05

Arendt, W. (*with* Kellermann, H.) Integrated solutions of Volterra integrodifferential equations and applications. **90h:47068**

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Guo, Da Jun Multiple solutions of nonlinear Fredholm integral equations in Banach spaces. **90m:45011**

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Noren, Richard Uniform L^1 behavior in a class of linear Volterra equations. **90h:45008**

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Zheng, Quan^2 Existence of solutions and comparison theorems for nonlinear Volterra integral equations in Banach spaces. (Chinese. English summary) **90i:45007**

— Nonlinear Volterra integral equations in Banach spaces and their applications. (Chinese summary) **90g:45008**

Zhuang, Wan Monotone iterative technique for nonlinear integro-differential equation involving operator of nonlinear Volterra type in a Banach space. (Chinese summary) **90i:65252**

45P05 Integral operators [see also 47Axx, 47Bxx, 47G05]

Bertero, M. (*with* Boccacci, P.) Computation of the singular system for a class of integral operators related to data inversion in confocal microscopy. **90k:45011**
Boccacci, P. *see* **Bertero, M., 90k:45011**
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Dorogovtsev, A. A. Analogues of convolution-type equations. (Russian) **90m:45024**
Dyakin, V. V. (*with* Raevskiĭ, V. Ya.) Investigation of an equation of electrophysics. (Russian) **90m:45025**
Dzhangibekov, G. Some two-dimensional singular integral operators. (Russian) (Not in MR)
Galué, L. (*with* Kalla, Shyam) Integral operators involving incomplete cylindrical functions. (Spanish. English summary) **90d:45010**
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Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich; et al., 90j:45031**
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Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.; Chekan, D. D.) Some problems in the identification of nonlinear functional systems. (Russian) **90j:45031**
Nazarov, L. G. Expansion in eigenfunctions of a finite-dimensional perturbation of the Volterra operator. (Russian) (*see* **90d:00046**)
Novitskiĭ, I. M. Carleman integral equations of the second kind on the half-line. (Russian) **90e:45019**
Pilidi, V. S. Uniform invertibility of a family of regular approximations of one-dimensional singular integral operators on the semiaxis with continuous coefficients. (Russian) (Not in MR)
Radzhabov, È. L. L_p-theory of integral operators whose kernels contain the Bessel function. (Russian. Tajiki summary) **90k:45012**
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Strizhkov, V. A. Asymptotic regularization of integral operators of the first kind with power singularity. **90j:45032**

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Akhalaya, G. Ya. (*with* Mandzhavidze, G. F.) Boundary value problems in the theory of generalized analytic vectors for domains with corner points. (Russian) **90e:30042**
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— L. V. Mikaelyan's conjecture in the theory of Wiener-Hopf determinants. (Russian) **90g:45010**
Brokate, Martin Some BV properties of the Preisach hysteresis operator. **90j:47082**
Brown, Russell M. Area integral estimates for caloric functions. **90j:35103**
Butsan, G. P. An integral equation for evolution stochastic operator systems without continuity and martingale conditions. (Russian. English summary) **90k:60121**
Dellwo, David R. Accelerated spectral refinement with applications to integral operators. **90j:45005**
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— (*with* Simonenko, I. B.; Trinh Ngoc Minh) Symbols and a homotopy classification of families of one-dimensional singular operators with piecewise-continuous coefficients. **90e:47042**
Dikhtyar, V. I. Optimal regularizing algorithms and filters that are defined by integral convolution operators. (Russian) (*see* **90a:00008**)
Èbanoidze, T. A. A singular integral equation. (Russian) **90b:45020**
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Efimov, S. V. The Noethericity of a class of bisingular operators with a shift. (Russian) **90h:47093**
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Govorukhina, A. A. (*with* Kovalenko, N. V.; Paradoksova, I. A.) Multidimensional integral operators with partial integrals in a half-space. (Russian) **90d:47054**
Heywood, P. (*with* Rooney, P. G.) On the Hankel and some related transformations. **90a:41009**
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(Iacob, Andrei) *see* **Krupnik, N. Ya., 90g:47092**
Kamalyan, A. G. (*with* Nersesyan, A. B.) Integral operators of smooth transfer type. **90h:47095**
Kazantzakis, J. G. *see* **Theocaris, P. S., 90b:73017**
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— *see also* **Böttcher, Albrecht; et al., 90b:46102**
Leibowitz, Gerald Homogeneity and weighted mean integral operators. **90k:47108**
Lisovets, N. I. Noethericity and the index of a singular integral operator of a special type. (Russian) **90e:47048**
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Sevast'yanov, L. A. Problems of the numerical realization of a mathematical model for a thin metallic film deposition process. (Russian) **90a:82098**
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Shargorodskiĭ, E. M. Singular integral operators with coefficients in P_nC. (Russian. English and Georgian summaries) **90j:30066**
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Silbermann, Bernd *see* **Böttcher, Albrecht; et al., 90b:46102**
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Sobirov, I. The existence of an nth eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) **90j:47070**
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Zhumanov, È. Solution of a singular integral equation with a multidimensional singular Bergman integral operator. (Russian) **90f:45005**

46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46–00 Handbooks, dictionaries, and other reference works

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Altomare, F. (*with* Campiti, Michele) A bibliography on the Korovkin type approximation theory (1952–1987). **90m:41001**
Ando, Tsuyoshi *see* **Halperin, I., 90k:00036**
Campiti, Michele *see* **Altomare, F., 90m:41001**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 90j:00004a**
Halperin, I. (*with* Ando, Tsuyoshi) ★ Bibliography: series of vectors and Riemann sums. **90k:00036**
Lyubich, Yu. I. Linear functional analysis. (Russian) **90j:00004b**

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Index:
J. Funct. Anal. Cumulative author-title index: Volumes 1–81. (Not in MR)
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 19. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 19] **90j:00004a**

46–01 Elementary exposition; textbooks

(Becker, Richard Edouard) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Fomin, S. V. *see* **Kolmogorov, A. N., 90k:46001**
(Gebel, M.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Heuser, Harro ★ Funktionalanalysis. (German) [Functional analysis.] **90m:46001**
Kesavan, S. ★ Topics in functional analysis and applications. **90m:46002**
Kolmogorov, A. N. (*with* Fomin, S. V.) ★ Элементы теории функций и функционального анализа. (Russian) [Elements of the theory of functions and functional analysis] **90k:46001**
Kreyszig, Erwin ★ Introductory functional analysis with applications. **90m:46003**
(Kunze, Wolfgang) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Maddox, I. J. ★ Elements of functional analysis. **90k:46002**
(Mai, B.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Murakami, Haruo ★ Kansukaiseki. (Japanese) [Functional analysis] **90i:46001**
Naĭmark, M. A. ★ Normierte Algebren. (German) [Normed algebras] **90m:46004a**
— ★ Normierte Algebren. (German) [Normed algebras] **90m:46004b**
Pedersen, Gert K. ★ Analysis now. **90f:46001**
(Tesch, G.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Tikhomirov, V. M.) *see* **Kolmogorov, A. N., 90k:46001**

Young, Nicholas J. ★ An introduction to Hilbert space. **90e:46001**
Zuily, C. ★ Problems in distributions and partial differential equations. **90d:46001**

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Azizov, T. Ya. (*with* Iokhvidov, I. S.) ★ Linear operators in spaces with an indefinite metric. **90j:47042**
(Bade, W. G.) *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**
(Bartle, Robert G.) *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**
Behrends, E. ★ Maß- und Integrationstheorie. (German) [Measure and integration theory] **90i:28001**
(Boll, Ludwig) *see* **Dieudonné, Jean, 90e:00001**
Dautray, Robert (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] **90m:00006b**
(Dawson, E. R.) *see* **Azizov, T. Ya., 90j:47042**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2] **90e:00001**
Dunford, Nelson (*with* Schwartz, Jacob T.) ★ Linear operators. Part I. **90g:47001a**
— (*with* Schwartz, Jacob T.) ★ Linear operators. Part II. **90g:47001b**
— (*with* Schwartz, Jacob T.) ★ Linear operators. Part III. **90g:47001c**
Iokhvidov, I. S. *see* **Azizov, T. Ya., 90j:47042**
Lions, Jacques-Louis *see* **Dautray, Robert, 90m:00006b**
Orlov, I. V. The Lagrangian theorem and its generalizations in current mathematics. (Russian) **90m:26001**
Royden, H. L. ★ Real analysis. **90g:00004**
Schwartz, Jacob T. *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**
Smirnov, Vladimir Ivanovich ★ Lehrgang der höheren Mathematik. Teil IV/1. (German) [Course in higher mathematics. Part IV/1] **90k:00003a**
Sobolev, S. L. ★ Некоторые применения функционального анализа в математической физике. (Russian) [Some applications of functional analysis in mathematical physics] **90m:46059**
— ★ Избранные вопросы теории функциональных пространств и обобщенных функций. (Russian) [Selected problems in the theory of function spaces and generalized functions] **90m:46060**
(Uspenskiĭ, S. V.) *see* **Sobolev, S. L., 90m:46060**
Vladimirov, V. S. ★ Уравнения математической физики. (Russian) [The equations of mathematical physics] **90m:00009**
Wulbert, Daniel Liapanov's and related theorems. **90m:46074**

46–02 Advanced exposition (research surveys, monographs, etc.)

Allan, G. R. Open problems. (*see* **90f:46002**)
Doran, R. S. *see* **Fell, J. M. G., 90c:46001** *and* **90c:46002**
Fell, J. M. G. (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 1. **90c:46001**
— (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 2. **90c:46002**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **90c:46003**
Kutateladze, S. S. *see* **Kusraev, A. G., 90c:46003**

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Problems:
  Automatic continuity and Banach algebras *see* **Allan, G. R.,** (**90f:46002**)
  Radical Banach algebras and automatic continuity Long Beach problems. (*see* **90f:46002**)

Items with secondary classifications in 46–02

(Aron, Richard M.) *see* **Casazza, Peter G., 90b:46030**
(Baker, John Warren) *see* **Casazza, Peter G., 90b:46030**
Casazza, Peter G. (*with* Shura, Thaddeus J.) ★ Tsirel′son's space. **90b:46030**
Hervé, Michel ★ Analyticity in infinite-dimensional spaces. **90f:46074**
Khrennikov, A. Yu. Functional superanalysis. **90f:58019a**
Pour-El, Marian B. (*with* Richards, Ian) ★ Computability in analysis and physics. **90k:03062**
Richards, Ian *see* **Pour-El, Marian B., 90k:03062**
Shura, Thaddeus J. *see* **Casazza, Peter G., 90b:46030**
(Slotterbeck, O.) *see* **Casazza, Peter G., 90b:46030**

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Lecture Notes in Mathematics *see* **Casazza, Peter G., 90b:46030**

46–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 46–03

(Dirac, Paul) *see* **Medvedev, F. A., 90b:01031**
(Dye, Henry Abel) *see* **Varadarajan, V. S., 90c:01110**
(Fantappiè, Luigi) *see* **Struppa, Daniele C., 90c:01048**
(Giorgi, G. L.) *see* **Medvedev, F. A., 90b:01031**
Guerraggio, Angelo The "Théorie générale des fonctionnelles" of V. Volterra and J. Pérès. (Italian) **90b:01048**
(Kolmogorov, A. N.) *see* **Vakhaniya, N. N., 90c:01049**
Lighthill, James Reminiscences about Fourier analysis and generalised functions. **90g:01033**
Medvedev, F. A. The delta-function of G. L. Giorgi and P. A. M. Dirac. (Russian) **90b:01031**
(Pérès, J.) *see* **Guerraggio, Angelo, 90b:01048**
Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) **90c:01048**
Vakhaniya, N. N. A. N. Kolmogorov and the development of the theory of probability distributions in linear spaces. **90c:01049**
Varadarajan, V. S. Henry Abel Dye. **90c:01110**
(Volterra, V.) *see* **Guerraggio, Angelo, 90b:01048**

46–06 Proceedings, conferences, etc.

(Berkson, Earl) *see* **Analysis at Urbana, 90d:46002** *and* **90d:46003**
(Lindenstrauss, J.) *see* **Geometric aspects of functional analysis, 90b:46002**
(Loy, R. J.) *see* **Conference: Automatic Continuity and Banach Algebras, 90f:46002**
(Martín Peinador, Elena) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Milman, Vitali D.) *see* **Geometric aspects of functional analysis, 90b:46002**
(Nikol′skiĭ, S. M.) *see* **Studies in the theory of differentiable functions of several variables and its applications, 90e:46002**
(Peck, T.) *see* **Analysis at Urbana, 90d:46002** *and* **90d:46003**
(Plans, Antonio) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Rodés-Usán, Alvaro Angel) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Uhl, J. Jerry, Jr.) *see* **Analysis at Urbana, 90d:46002** *and* **90d:46003**

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Analysis at Urbana ★ Analysis at Urbana. Vol. I. **90d:46002**
— ★ Analysis at Urbana. Vol. II. **90d:46003**
Analyticity in operator algebras ★ Sakuyo sokan no kaisekisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] **90b:46001**
Austin, TX ★ Texas Functional Analysis Seminar 1985–1986. **90d:46004**
Canberra ★ Conference on Automatic Continuity and Banach Algebras. **90f:46002**
Conference:
  Automatic Continuity and Banach Algebras ★ Conference on Automatic Continuity and Banach Algebras. **90f:46002**
  Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
Congress:
  Functional Analysis ★ Congress on Functional Analysis. **90m:46005**
Functional-analytic study of generalized functions ★ Chōkansūron no kansū kaisekiteki kenkyū. (Japanese) [Functional-analytic study of generalized functions] **90m:46006**
Geometric aspects of Banach spaces ★ Geometric aspects of Banach spaces. **90h:46001**
Geometric aspects of functional analysis ★ Geometric aspects of functional analysis. **90b:46002**
Lecture Notes in Mathematics ★ Geometric aspects of functional analysis. **90b:46002**
Madrid ★ Congress on Functional Analysis. **90m:46005**
Oxford, MS ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
Proceedings:
  Conference on Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
Seminar:
  Functional Analysis ★ Texas Functional Analysis Seminar 1985–1986. **90d:46004**
  Geometric Aspects of Functional Analysis ★ Geometric aspects of functional analysis. **90b:46002**
Special Year:
  Modern Analysis ★ Analysis at Urbana. Vol. I. **90d:46002**
  — ★ Analysis at Urbana. Vol. II. **90d:46003**
Studies in the theory of differentiable functions of several variables and its applications ★ Исследования по теории дифференцируемых функций многих переменных и ее приложениям. 13. (Russian) [Studies in the theory of differentiable functions of several variables and its applications. 13] **90e:46002**
Symposium:
  Analyticity in Operator Algebras ★ Sakuyo sokan no kaisekisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] **90b:46001**
  Functional-analytic Study of Generalized Functions ★ Chōkansūron no kansū kaisekiteki kenkyū. (Japanese) [Functional-analytic study of generalized functions] **90m:46006**
  Theory of Operator Algebras and Index Theory ★ Sayosokan ron to shisū riron. (Japanese) [Theory of operator algebras and index theory] **90d:46005**
Theory of operator algebras and index theory ★ Sayosokan ron to shisū riron. (Japanese) [Theory of operator algebras and index theory] **90d:46005**
Urbana, IL ★ Analysis at Urbana. Vol. I. **90d:46002**
— ★ Analysis at Urbana. Vol. II. **90d:46003**

Items with secondary classifications in 46–06

(Accardi, L.) *see* **Quantum probability and applications, 90f:00007**
(Belyaev, Yu. K.) *see* **Probability theory, theory of random processes, and functional analysis, 90m:00040**
(Colella, David) *see* **Commutative harmonic analysis, 90a:43001**
(Déchamps-Gondim, Myriam) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
(Fitzpatrick, Simon) *see* **Workshop: Functional Analysis and Optimization, 90c:00012**
(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Newest results, 90m:00017**
(Giles, John) *see* **Workshop: Functional Analysis and Optimization, 90c:00012**
(Gnedenko, B. V.) *see* **Probability theory, theory of random processes, and functional analysis, 90m:00040**
(Godunov, S. K.) *see* **Functional analysis and mathematical physics, 90k:00020**
(Kaminker, J.) *see* **Geometric and topological invariants of elliptic operators, 90k:58206**
(Lust-Piquard, Françoise) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**
(Nikol′skiĭ, N. K.) *see* **Toeplitz operators and spectral function theory, 90h:47001**
(Päivärinta, L.) *see* **Function spaces, differential operators and nonlinear analysis, 90j:00020**
(Queffélec, Hervé) *see* **Harmonic analysis: Working Group on Translation-Invariant Banach Spaces, 90f:00001**

(von Waldenfels, Wilhelm) *see* **Quantum probability and applications, 90f:00007**

Items listed otherwise than by author

Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Brunswick, ME ★ Geometric and topological invariants of elliptic operators. **90k:58206**
Canberra ★ Workshop/Miniconference on Functional Analysis and Optimization. **90c:00012**
Canton, NY ★ Commutative harmonic analysis. **90a:43001**
Commutative harmonic analysis ★ Commutative harmonic analysis. **90a:43001**
Conference:
  Commutative Harmonic Analysis ★ Commutative harmonic analysis. **90a:43001**
  Geometric and Topological Invariants of Elliptic Operators ★ Geometric and topological invariants of elliptic operators. **90k:58206**
  Probability, Random Processes and Functional Analysis ★ Теория вероятностей, теория случайных процессов и функциональный анализ. (Russian) [Probability theory, theory of random processes, and functional analysis] **90m:00040**
Contemporary Mathematics ★ Commutative harmonic analysis. **90a:43001**
— ★ Geometric and topological invariants of elliptic operators. **90k:58206**
Current problems in mathematics. Newest results ★ Современные проблемы математики. Новейшие достижения. Том 36. (Russian) [Current problems in mathematics. Newest results. Vol. 36] **90m:00017**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
Functional analysis and mathematical physics ★ Функциональный анализ и математическая физика. (Russian) [Functional analysis and mathematical physics] **90k:00020**
Geometric and topological invariants of elliptic operators ★ Geometric and topological invariants of elliptic operators. **90k:58206**
Harmonic analysis: Working Group on Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Новейшие достижения. Том 36. (Russian) [Current problems in mathematics. Newest results. Vol. 36] **90m:00017**
Lecture Notes in Mathematics ★ Quantum probability and applications. IV. **90f:00007**
Miniconference:
  Functional Analysis and Optimization ★ Workshop/Miniconference on Functional Analysis and Optimization. **90c:00012**
Moscow ★ Теория вероятностей, теория случайных процессов и функциональный анализ. (Russian) [Probability theory, theory of random processes, and functional analysis] **90m:00040**
Probability theory, theory of random processes, and functional analysis ★ Теория вероятностей, теория случайных процессов и функциональный анализ. (Russian) [Probability theory, theory of random processes, and functional analysis] **90m:00040**
Quantum probability and applications ★ Quantum probability and applications. IV. **90f:00007**
Rome ★ Quantum probability and applications. IV. **90f:00007**
School:
  Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
Sodankylä ★ Function spaces, differential operators and nonlinear analysis. **90j:00020**
Special Year:
  Quantum Probability ★ Quantum probability and applications. IV. **90f:00007**
Toeplitz operators and spectral function theory ★ Toeplitz operators and spectral function theory. **90h:47001**
Working Group:
  Translation-Invariant Banach Spaces ★ Analyse harmonique: Groupe de Travail sur les Espaces de Banach Invariants par Translation. [Harmonic analysis: Working Group on Translation-Invariant Banach Spaces] **90f:00001**
Workshop:
  Functional Analysis and Optimization ★ Workshop/Miniconference on Functional Analysis and Optimization. **90c:00012**

46Axx Topological linear spaces

Bierstedt, Klaus-D. (*with* Bonet, José) Dual density conditions in (DF)-spaces. I. **90b:46003a**
— (*with* Bonet, José) Erratum: "Dual density conditions in (DF)-spaces. I". **90b:46003b**
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— (*with* García, Domingo; Maestre, Manuel) The Hartogs theorem and holomorphic classification. (Spanish. English summary) **90a:46112**
— *see also* **Bonet, José; et al., 90a:46110**
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— *see also* **Bonet, José; et al., 90a:46110** *and* **Galindo, Pablo; et al., 90a:46112**
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46A06 Metrizable topological linear spaces and their duals (F-, DF-spaces, etc.)

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— (*with* Moscatelli, V. B.) On twisted Fréchet and (LB)-spaces. **90d:46007**
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Hsiang, W. H. Remarks on generalized Minkowski functionals and barrelled spaces. **90g:46004**
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46A09 Bornological spaces

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46A10 Locally bounded topological linear spaces

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46A12 Spaces defined by special inductive or projective limits (LF-, nuclear, Schwartz, Silva spaces, etc.) [see also 46M10, 46M40]

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— (*with* Bonet, José) Dual density conditions in (DF)-spaces. II. **90g:46002**
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— *see also* **Bonet, José; et al., 90k:46020**
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Hennings, M. A. A different approach to unbounded operator algebras. **90c:47081**
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46A14 Spaces defined by compactness properties (Montel spaces, etc.)

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46A15 Other topological linear spaces

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46A20 Duality theory

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46A22 Extension and lifting of functionals and operators [see also 46M10]

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46A25 Reflexivity and semi-reflexivity

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46A30 Open mappings and closed graph theorems and completeness (including B-, B_r-completeness)

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46A99 None of the above, but in this section

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Jordán Lluch, Cristina (*with* Torregrosa Sánchez, Juan Ramón) A characterization of the duals of some echelon Köthe spaces of Banach valued functions. **90c:46048**

Kaufman, Robert P. (*with* Petrakis, Minos; Riddle, Lawrence H.; Uhl, J. Jerry, Jr.) Nearly representable operators. **90d:47032**

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Petrakis, Minos *see* **Kaufman, Robert P.; et al., 90d:47032**

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Riddle, Lawrence H. *see* **Kaufman, Robert P.; et al., 90d:47032**

Schachermayer, Walter *see* **Ghoussoub, N.; et al., 90f:46026**

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Pavlović, Miroslav Uniform c-convexity of L^p, $0 < p \leq 1$. **90c:46027**

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García Nogales, A. $l_1(I)$ (I uncountable) and l_∞ are not weakly K-analytic. (Spanish) **90d:46027**

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Leung, Denny (*with* Räbiger, Frank) Complemented copies of c_0 in l^∞ sums of Banach spaces. **90k:46034**

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— On approximation numbers of the canonical embedding $l_p^m \to l_q^m$. **90c:47034**

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Fetter, Helga (*with* Gamboa de Buen, Berta) Does the diagonal bound property imply that X is a Hilbert space? **90a:46048**

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Grabosch, A. (*with* Nagel, Rainer) Order structure of the semigroup dual: a counterexample. **90c:47067**

Grobler, J. J. The zero-two law in Banach lattice algebras. **90e:46037**

Haydon, Richard (*with* Zizler, Václav E.) A new space with no locally uniformly rotund renorming. **90g:46027**

Khamsi, M. A. (*with* Turpin, Ph.) Fixed points of nonexpansive mappings in Banach lattices. **90a:47145**

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Leung, Denny On the weak Dunford-Pettis property. **90d:46041**

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— (*with* Vuza, Dan Tudor) Alfsen-Effros type order relations defined by vector norms. **90d:46032**

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Ho, Yin (*with* White, Albert George, Jr.) A note on p-semi-inner product spaces. (Serbo-Croatian summary) **90a:46046**

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Benítez, Carlos (*with* Fernández García-Hierro, Manual; Soriano, María Luisa) Approximation in normed spaces: simultaneous and mixed approximation. **90m:41049**

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Cui, Xiu Xin An investigation of norm-preserving extensions of bounded bilinear functionals on 2-normed spaces and some other problems. (Chinese. English summary) **90b:46022**

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— A characterization of elements of best approximation in real normed linear spaces. (Romanian summary) **90m:41052**

Fernández García-Hierro, Manual *see* **Benítez, Carlos; et al., 90m:41049**

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Liu, Yu Qiang Banach sequence spaces equipped with sequential norms. **90j:40016**

Lust-Piquard, Françoise (*with* Schachermayer, Walter) Functions in $L^\infty(G)$ and associated convolution operators. **90k:43009**

Martelli, Mario (*with* Busenberg, Stavros) Periods of Lipschitz functions and lengths of closed curves. **90k:52025**

Martínez-Maurica, J. (*with* Pérez-Garciá, Cristina) Non-Archimedean K-spaces. **90h:46111**

Martins, Jorge Antonio Sanpaio On the entropy moduli of diagonal operators. (Italian summary) **90f:47027**

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46Cxx Inner product spaces, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Geometry and topology of the spaces

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Elumalai, S. Interpolation in Hilbert spaces. **90e:46018**
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— (*with* Gamboa de Buen, Berta) Does the diagonal bound property imply that X is a Hilbert space? **90a:46048**
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Gulevich, N. M. The radius of a compact set in Hilbert space. (Russian. English summary) **90d:46036**
Klimova, I. M. (*with* Tokarev, E. V.) A model-theoretic characterization of Hilbert spaces. **90e:46019**
Lion, Georges Une caractérisation des normes euclidiennes en dimension finie. [A characterization of Euclidean norms in finite dimension] **90c:46030**
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Zhang, Wei Guo A discussion on necessary and sufficient conditions for completeness of inner product spaces. (Chinese. English summary) **90c:46031**
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Ghoussoub, N. (*with* Maurey, B.) G_δ-embeddings in Hilbert space. II. **90b:46033**
Kanwal, R. P. *see* **Estrada, Ricardo, 90f:45007**
Kushpel', A. K. μ-widths of sets in a Hilbert space. (Russian) **90d:41046**
Kutateladze, S. S. Letter to the editors: "A criterion for a Hilbert space" [Optimizatsiya No. 28(45) (1982), 146–147; MR 84a:46032]. (Russian) **90h:46027**
Maurey, B. *see* **Ghoussoub, N., 90b:46033**
Nikaido, Gyokai Pair of closed subspaces and product of linear operators in a Hilbert space. **90a:47002**
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46C10 Other properties of such spaces

Dvurečenskij, Anatolij (*with* Pulmannová, S.) State on splitting subspaces and completeness of inner product spaces. **90b:46050**
— (*with* Mišík, Ladislav, Jr.) Gleason's theorem and completeness of inner product spaces. **90f:46038**
— States on families of subspaces of pre-Hilbert spaces. **90j:46027**
— (*with* Pulmannová, S.) A signed measure completeness criterion. **90m:46032**
Kruszyński, Paweł Ring characterization of scalar product spaces and Gel'fand triples. **90f:46039**
Liu, Pei De A characterization of Hilbert spaces. (Chinese. English summary) **90h:46040**
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Kasimov, Sh. G. Stability of bases of Hilbert and Banach spaces. (Russian) **90i:46022**
Kurepa, S. On P. Volkmann's paper. (Serbo-Croatian summary) **90d:39015**
Pfeffer, W. F. Corrections to: "Lorentz transformations of a Hilbert space" [Amer. J. Math. **103** (1981), no. 4, 691–709; MR 82h:53037]. **90g:51007**
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Almeida, D. F. *see* **Sharma, C. S., 90h:46042**
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Dragomir, S. S. Linear and continuous functionals on complete R-semi-inner product space. I. **90f:46040**
— Linear and continuous functionals on complete R-semi-inner product spaces. II. **90f:46041**
— Q-normed linear spaces. **90h:46041**
— (*with* Sándor, József) The Chebyshev inequality in pre-Hilbertian spaces. I. (Romanian summary) **90k:46048**
Horwitz, L. P. *see* **Razon, Aharon; et al., 90d:46037**
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— Some properties of sequences of subspaces with hereditary nuclei. (Spanish. English summary) **90b:46052**
Razon, Aharon (*with* Horwitz, L. P.; Biedenharn, L. C.) On a basic theorem of quaternion modules. **90d:46037**
Sándor, József *see* **Dragomir, S. S., 90k:46048**
Sharma, C. S. (*with* Almeida, D. F.) Additive functionals and operators on a quaternionic Hilbert space. **90h:46042**
Yang, Ze Jiang *see* **Zhang, Shi Sheng; et al., 90h:46043** *and* **90m:46033**
Zhang, Shi Sheng (*with* Kang, Shi Kun; Yang, Ze Jiang) On the theory of probabilistic inner product spaces. I. (Chinese summary) **90h:46043**
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Dai, An Shun Probability inner product and inner product. (Chinese summary) **90b:08002**
Dalla, Leoni Increasing paths leading to a face of a convex compact set in a Hilbert space. **90c:52001**
De Blasi, Francesco S. (*with* Myjak, Józef) Ensembles poreux dans la théorie de la meilleure approximation. (English summary) [Porous sets in best approximation theory] **90k:41044**
Domański, Paweł Complemented subspaces of products of Hilbert spaces. **90m:46007**
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Fochi, Margherita Functional equations on A-orthogonal vectors. **90f:39016**
Ger, R. Some remarks on quadratic functionals. (Serbo-Croatian summary) **90k:39009**
Ho, Yin (*with* White, Albert George, Jr.) A note on p-semi-inner product spaces. (Serbo-Croatian summary) **90a:46046**
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Schmitt, Lothar M. A remark on Radon-Nikodým properties of ordered Hilbert spaces. **90a:46169**
Shabani, J. Quantized fields and operators on a partial inner product space. (French summary) **90a:46195**
— Some unbounded commutants of a set of operators on a partial inner product space. **90a:47116**
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46D05 Spaces with indefinite inner product

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Rovnyak, James Coefficient estimates for Riemann mapping functions. **90f:30030**

46Exx Linear function spaces and their duals [see also 30H05; for function algebras, see 46J10]

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46E05 Lattices of continuous, differentiable or analytic functions

Campiti, Michele Determining subspaces for continuous positive discrete linear forms. (Italian summary) **90i:46047**
Duong Tan Thanh On vector lattices of continuous functions in locally compact spaces. **90h:46044**
Koldunov, A. V. Functional characterization of (M, I)-absolutes. (Russian) (*see* **90d:00009**)
Liu, Qi Jin On lattices of fuzzy continuous functions. **90b:46053**
Powers, Robert C. Order automorphisms of spaces of nondecreasing functions. **90f:46042**

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Scheffold, Egon Über FF-Banachverbandsalgebren $C(K)$ und ihren assoziierten Operator. (English summary) [On FF-Banach lattice algebras $C(K)$ and their associated operator] **90f:46046**
Traynor, Tim Lifting: the connection between functional representations of vector lattices. (*see* **90j:26001**)
Zakharov, Valeriĭ Konstantinovich On functions connected with sequential absolute, Canto completion and classical ring of quotients. **90e:54035**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

Akhmedov, Sh. A. Spaces of entire analytic functions that characterize the Fourier transform of certain classes of compactly supported and infinitely differentiable functions. (Russian. Tajiki summary) **90d:46038**
Bastin, Françoise (*with* Ernst, B.) A criterion for $CV(X)$ to be quasinormable. **90c:46033**
— On bornological $C\overline{V}(X)$ spaces. **90i:46048**
Bhave, N. S. Bornological properties of some generalized spaces of entire functions. **90b:46054**
Bonet, José (*with* Meise, Reinhold; Taylor, B. A.) Whitney's extension theorem for ultradifferentiable functions of Roumieu type. **90m:46035**
Chan-Porn Les systèmes de représentation absolue dans les espaces des fonctions holomorphes. [Systems of absolute representation in holomorphic function spaces] **90m:46036**
— Ensembles suffisants pour quelques espaces de fonctions. [Sufficient sets for some function spaces] **90m:46037**
Charris Castañeda, Jairo A. (*with* Huérfano, Ruth S.) On some spaces of analytic functions and their duality relations. **90m:46038**
Daly, James E. Factorization of Hardy spaces on local fields. **90a:46049**
Ernst, B. *see* **Bastin, Françoise, 90c:46033**
Gaĭmnazarov, G. Properties of functions in the spaces $H_p(-\infty,\infty)$, $0<p<1$. (Russian. Tajiki summary) **90k:46049**
Huérfano, Ruth S. *see* **Charris Castañeda, Jairo A., 90m:46038**
Korobeĭnik, Yu. F. (*with* Melikhov, S. N.) Projective topologies of inductive limits of weighted function spaces. (Russian) **90d:46039**
Lê Hai Khôi Espaces conjugués ensembles faiblement suffisants discrets et systèmes de représentation exponentielle. [Adjoint spaces, discrete weakly sufficient sets and systems of exponential representation] **90k:46050**
Martens, Franciscus Johannes Ludovicus ★ Spaces of analytic functions on inductive/projective limits of Hilbert spaces. **90k:46051**
Meise, Reinhold (*with* Taylor, B. A.) Linear extension operators for ultradifferentiable functions of Beurling type on compact sets. **90c:46034**
— *see also* **Bonet, José; et al., 90m:46035**
Melentsov, A. A. (*with* Panov, V. G.) An ergodic property of a space of continuous functions. (Russian) **90h:46045**
Melikhov, S. N. *see* **Korobeĭnik, Yu. F., 90d:46039**
Nawrocki, M. The nonisomorphism of the Smirnov classes of different balls and polydiscs. **90k:46052**
Nowak, Marian On the finest Lebesgue topology on the space of essentially bounded measurable functions. **90m:46039**
Panov, V. G. *see* **Melentsov, A. A., 90h:46045**
Sternfeld, Yaki (*with* Weit, Yitzhak) Affine invariant subspaces of $C(\mathbf{C})$. **90m:46040**
Taylor, B. A. *see* **Meise, Reinhold, 90c:46034** *and* **Bonet, José; et al., 90m:46035**
Titus, J. P. J. On certain sub-spaces of Γ. **90d:46040**
Weit, Yitzhak *see* **Sternfeld, Yaki, 90m:46040**

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Akbarov, S. S. Power series with coefficients in nonnormable spaces. (Russian. English and Armenian summaries) **90j:40001**
Altomare, F. Approximation of finitely defined operators in function spaces. (Italian summary) **90i:47029**
Ansemil, J. M. (*with* Ponte, S.) The compact open and the Nachbin ported topologies on spaces of holomorphic functions. **90a:46109**
Atzmon, Aharon Spaces of entire functions with no proper translation invariant subspaces. **90i:47004**
Aytuna, A. On Stein manifolds M for which $\mathscr{O}(M)$ is isomorphic to $\mathscr{O}(\Delta^n)$ as Fréchet spaces. **90a:32021**
Baars, Jan (*with* de Groot, Joost) An isomorphical classification of function spaces of zero-dimensional locally compact separable metric spaces. **90a:54042**
Bertolo, Nativi Viana Pereira p-atoms and spaces of homogeneous type. (Portuguese. English summary) **90j:42051**
Besada, Manuel (*with* Estévez, Margarita; Hervés, Carlos) Some results on entire functions with weak continuity properties in Banach spaces. (Spanish. English summary) **90e:46035**
Bierstedt, Klaus-D. (*with* Bonet, José) Dual density conditions in (DF)-spaces. II. **90g:46002**
Bonet, José (*with* Galindo, Pablo; García, Domingo; Maestre, Manuel) Locally bounded sets of holomorphic mappings. **90a:46110**
— *see also* **Bierstedt, Klaus-D., 90g:46002**
Caldas Cueva, Miguel On polynomially semibornological locally convex spaces. **90b:46096**
Chan, Kit Chak Common cyclic entire functions for partial differential operators. **90j:47064**
Díaz García-Tuñón, Luis The Nachbin topology on $H(U)$. (Spanish) **90d:46070**
Estévez, Margarita *see* **Besada, Manuel; et al., 90e:46035**
Fishman, I. P. *see* **Knyazyuk, A. V., 90f:47066**
Galindo, Pablo Holomorphic analogues of certain barrelled spaces. (Spanish. English summary) **90a:46111**
— *see also* **Bonet, José; et al., 90a:46110**
García, Domingo Countable sets of holomorphic mappings. **90c:46057**
— *see also* **Bonet, José; et al., 90a:46110**
de Groot, Joost *see* **Baars, Jan, 90a:54042**
Guijarro Carranza, P. Asymptotic expansions in Banach spaces based on compact subsets. (Spanish. English summary) **90g:46066**
Hervés, Carlos *see* **Besada, Manuel; et al., 90e:46035**
Ishimura, Ryuichi Endomorphismes de l'espace des germes de fonctions holomorphes en un point et opérateurs différentiels d'ordre infini. (English summary) [Endomorphisms of the space of germs of functions holomorphic at a point and differential operators of infinite order] **90i:32004**
Knyazyuk, A. V. (*with* Fishman, I. P.) Boundary values of solutions of operator-differential equations of arbitrary order. **90f:47066**
Kori, Tosiaki Dual of the space of holomorphic functions with continuous boundary values on a strictly pseudo-convex domain in $\mathbf{C}^n$. **90k:32021**
Langenbruch, Michael Extension of ultradifferentiable functions of Roumieu type. **90a:46088**
Lusky, Wolfgang On nonseparable simplex spaces. **90g:46017**
Maestre, Manuel Stability under products and holomorphic classification. (Spanish. English summary) **90c:46058**
— *see also* **Bonet, José; et al., 90a:46110**
Meise, Reinhold (*with* Taylor, B. A.) A decomposition lemma for entire functions and its applications to spaces of ultradifferentiable functions. **90i:46075**
Nagnibida, N. I. Transformations of ordinary linear differential equations with analytic coefficients. **90g:47058**
Ponte, S. *see* **Ansemil, J. M., 90a:46109**
Srivastava, J. K. A study of bases and automorphisms in the space of analytic functions of several variables over non-Archimedean fields. **90g:46109**
Srivastava, P. D. The classical interpretation of convergence in the space of entire functions of Seremeta order not exceeding ρ is obtained. (Russian and Polish summaries) **90h:30114**
Taylor, B. A. *see* **Meise, Reinhold, 90i:46075**

46E15 Banach spaces of continuous, differentiable or analytic functions

Akeroyd, John Point evaluations and polynomial approximation in the mean with respect to harmonic measure. **90a:46050**
Altomare, F. Korovkin-type theorems for positive functionals in spaces of continuous affine functions. (Italian summary) **90c:46035**
Arazy, Jonathan (*with* Fisher, S. D.; Peetre, Jaak) Besov norms of rational functions. **90a:46051**
Argyros, S. (*with* Mercourakis, S.; Negrepontis, Stelios) Functional-analytic properties of Corson-compact spaces. **90e:46020**
Bertolo, Nativi Viana Pereira On the Hardy space H^1 on products of half-spaces. **90m:46041**
Bhatt, S. J. (*with* Patel, A. B.; Mathew, Thomas^2) An Ascoli-Arzela theorem for differentiable functions. **90j:46028**
Blasco De La Cruz, Oscar Interpolation between $H^1_{B_0}$ and $I^p_{B_1}$. **90e:46021**
Bloom, Steven (*with* De Souza, Geraldo Soares) Atomic decomposition of generalized Lipschitz spaces. **90g:46041**
Burbea, J. Functional Banach spaces of holomorphic functions on Reinhardt domains. **90f:46043**
Butzer, P. L. (*with* Kirschfink, H.; van Wickeren, E.) Weak convergence of probability measures in $C_b(C[0,1])$ equipped with rates. **90k:46053**
Choa, J. S. (*with* Kim, Hong Oh) On the dual space of a weighted Bergman space on the unit ball of C^n. **90a:46052**
De Souza, Geraldo Soares *see* **Bloom, Steven, 90g:46041**
Fernández, José Luis Cuadra (*with* Hui, Stefen Y.; Shapiro, Harold S.) Unimodular functions and uniform boundedness. **90k:46054**
Fisher, S. D. *see* **Arazy, Jonathan; et al., 90a:46051**
Forsman, Klas Atomic decompositions in Hardy spaces on bounded Lipschitz domains. **90a:46053**
Grushchak, O. O. L^p-isometries of spaces of solutions of linear homogeneous differential equations with constant coefficients. (Russian) (*see* **90d:00009**)
He, Yu Zan A class of special Hardy-Orlicz spaces and the space of BMOA functions. **90a:46054**
Hui, Stefen Y. *see* **Fernández, José Luis Cuadra; et al., 90k:46054**
Kenig, C. E. (*with* Pipher, Jill) Hardy spaces and the Dirichlet problem on Lipschitz domains. **90g:46042**
Kim, Hong Oh *see* **Choa, J. S., 90a:46052**
Kirschfink, H. *see* **Butzer, P. L.; et al., 90k:46053**
Mathew, Thomas^2 *see* **Bhatt, S. J.; et al., 90j:46028**
Mazur, Tomasz Canonical isometry on weighted Bergman spaces. **90a:46055**
Mercourakis, S. *see* **Argyros, S.; et al., 90e:46020**
Müller, Paul F. X. (*with* Schechtman, G.) On complemented subspaces of H^1 and VMO. **90h:46046**
— On linear topological properties of H^1 on spaces of homogeneous type. **90f:46044**
Nawrocki, M. The Orlicz-Pettis theorem fails for Lumer's Hardy spaces $(LH)^p(B)$. **90k:46055**
Negrepontis, Stelios *see* **Argyros, S.; et al., 90e:46020**
Păltineanu, G. Considérations sur une certaine classe de parties d'interpolation stricte d'un espace compact par rapport à un espace vectoriel de fonctions continues. [Remarks on a certain class of strict interpolation subsets of a compact space with respect to a continuous-function vector space] **90b:46055**
Patel, A. B. *see* **Bhatt, S. J.; et al., 90j:46028**
Peetre, Jaak *see* **Arazy, Jonathan; et al., 90a:46051**
Pipher, Jill *see* **Kenig, C. E., 90g:46042**
Royden, H. L. Invariant subspaces of $\mathscr{H}^p$ for multiply connected regions. **90a:46056**
Schechtman, G. *see* **Müller, Paul F. X., 90h:46046**
Shapiro, Harold S. *see* **Fernández, José Luis Cuadra; et al., 90k:46054**
Straube, Emil J. Interpolation between Sobolev and between Lipschitz spaces of analytic functions on starshaped domains. **90c:46036**
Strömberg, Jan-Olov (*with* Wheeden, Richard L.) Relations between H^p_u and L^p_u in a product space. **90a:46057**
Vasin, A. V. Complementability in L^p spaces of polyanalytic and polyharmonic functions. (Russian) (*see* **90d:00009**)
Wheeden, Richard L. *see* **Strömberg, Jan-Olov, 90a:46057**
van Wickeren, E. *see* **Butzer, P. L.; et al., 90k:46053**
Xiao, Jie^1 Equivalence between Bloch space and BMOA space. (Chinese summary) (Not in MR)
Xiao, Jie^2 Completeness for $H^p_q(D)$-space. **90a:46058**

Zhou, Song Ping On the extension of a theorem of W. Dickmeis et al. **90k:46056**

Items with secondary classifications in 46E15

Ahern, Patrick Some topics from the theory of functions in the unit ball. **90i:32009**
Aikawa, Hiroaki On weighted Beppo Levi function. **90e:46007**
Akhmedov, Sh. A. Some spaces of test functions and of infinitely differentiable functions. (Russian. Tajiki summary) **90d:46057**
Axler, Sheldon Bergman spaces and their operators. **90b:47048**
Bakarchuk, S. B. Widths of some classes of analytic functions in the Hardy space H_2. **90i:30057**
Beatrous, F. (*with* Burbea, J.) Holomorphic Sobolev spaces on the ball. **90k:32010**
Bloom, Steven Pointwise multipliers of weighted BMO spaces. **90c:42013**
Burbea, J. *see* **Beatrous, F., 90k:32010**
Choi, U Jin *see* **Kwak, Do Y., 90g:47050**
Cohn, William S. A maximum principle for star invariant subspaces. **90c:30059**
— Boundary interpolation for continuous holomorphic functions. **90k:32019**
Dobrakov, Ivan Representation of multilinear operators on $\times C_0(T_i)$. **90c:46055**
D′yakonov, K. M. An interpolation problem and equivalent norms in the spaces K_θ^p. **90g:46052**
García-Cuerva, José Hardy spaces and Beurling algebras. **90i:42032**
Heinig, H. P. (*with* Sinnamon, Gordon) Integral representations of functions in weighted Bergman spaces. **90g:30033**
Hueso, J. L. *see* **Motos, J., 90b:46019**
Karayannakis, Dimitri Spectral decompositions of one-parameter groups of isometries on Hardy spaces. **90c:47068**
Khurana, Surjit Singh (*with* Othman, Sadoon Ibrahim) Grothendieck measures. **90f:46057**
Kim, Hong Oh (*with* Kwon, E. G.) Weighted subspaces of Hardy spaces. **90a:30095**
Kolaski, Clinton J. Isometries of some smooth normed spaces of analytic functions. **90e:46044**
Krantz, S. G. (*with* Ma, Dao Wei) On isometric isomorphisms of the Bloch space on the unit ball of $\mathbf{C}^n$. **90d:32031**
Kushpel′, A. K. Estimates for the widths of classes of analytic functions. **90j:41041**
— Estimates for widths of convolution classes in the spaces C and L. **90j:41042**
Kwak, Do Y. (*with* Choi, U Jin) Bloch spaces in the ball and Hankel operators. **90g:47050**
Kwon, E. G. *see* **Kim, Hong Oh, 90a:30095**
Li, Wu Strong uniqueness and Lipschitz continuity of metric projections: a generalization of the classical Haar theory. **90e:41013**
Lusky, Wolfgang Every L_1-predual is complemented in a simplex space. **90b:46046**
Ma, Dao Wei *see* **Krantz, S. G., 90d:32031**
Maddox, I. J. The norm of a linear functional. **90c:26065**
Mochizuki, Nozomu Positive kernel functions and Bergman spaces. **90a:32009**
Motos, J. (*with* Hueso, J. L.) Locally convex Rosenthal spaces. (Spanish. English summary) **90b:46019**
Muramoto, Katsushi Harmonic Bloch and BMO functions on the unit ball in several variables. **90a:31006**
Nawrocki, M. Linear functionals on the Smirnov class of the unit ball in $\mathbf{C}^n$. **90m:32014**
Núñez, Carmelo Characterization of Banach spaces of continuous vector valued functions with the weak Banach-Saks property. **90a:46086**
Olteanu, Octav A partially ordered function space and the reflexivity of Banach spaces. **90c:46011**
Othman, Sadoon Ibrahim *see* **Khurana, Surjit Singh, 90f:46057**
Ouyang, Cai Heng Baernstein theorem in unit ball of $\mathbf{C}^n$. **90b:32014**
Pérez-González, F. H^p joint approximation. **90a:30109**
Sedletskiĭ, A. M. Projecting from spaces E^p in a convex polygon onto subspaces of periodic functions. **90c:42027**
Shirokov, N. A. ★ Analytic functions smooth up to the boundary. **90h:30087**
Sieczko, Anna Characterization of globally Lipschitzian Nemytskiĭ operator in the Banach space AC^{r-1}. **90k:47136**
Sinnamon, Gordon *see* **Heinig, H. P., 90g:30033**
Stroethoff, Karel Besov-type characterisations for the Bloch space. **90h:32012**
Temlyakov, V. N. On estimates of ε-entropy and widths of classes of functions with a bounded mixed derivative or difference. **90e:41012**
Vakarchuk, S. B. On the best polynomial approximation of analytic functions in the space $\mathscr{B}(p,q,\lambda)$. (Russian. English summary) **90i:30064**
Wogen, W. R. The smooth mappings which preserve the Hardy space $H^2(B_n)$. **90k:32018**
Zhu, Ke He Duality and Hankel operators on the Bergman spaces of bounded symmetric domains. **90h:47051**

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46E20 Hilbert spaces of continuous, differentiable or analytic functions

Chan, Kit Chak On the Dirichlet space for finitely connected regions. **90j:46029**
Hitt, D. Invariant subspaces of $\mathscr{H}^2$ of an annulus. **90a:46059**
Lyubarskiĭ, Yu. I. Analogues of spaces of V. I. Smirnov for nonintegral exponents. (Russian) **90b:46056**
Ohno, Yoshiki A problem of prediction theory type in T^2. **90b:46057**
Rudol, K. Atomic-type decompositions in the Segal-Bargmann space. **90a:46060**
Saitoh, Saburou ★ Theory of reproducing kernels and its applications. **90f:46045**
Salinas, Norberto Products of kernel functions and module tensor products. **90a:46061**
Skwarczyński, Maciej L^2-angles between one-dimensional tubes. **90a:46062**

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Arazy, Jonathan Membership of Hankel operators on planar domains in unitary ideals. **90g:47048**
Axler, Sheldon Bergman spaces and their operators. **90b:47048**
Boman, Jan (*with* Janson, Svante; Peetre, Jaak) Big Hankel operators of higher weight. **90i:47031**
Bonami, Aline (*with* Charpentier, Philippe) Une estimation Sobolev $\frac{1}{2}$ pour le projecteur de Bergman. (English summary) [$W^{1/2}$ estimate for the Bergman projection] **90b:32048**
de Branges, Louis Kreĭn spaces of analytic functions. **90c:47060**
Burbea, J. Functional Banach spaces of holomorphic functions on Reinhardt domains. **90f:46043**
Burkholder, Donald L. Differential subordination of harmonic functions and martingales. **90k:31004**
Cai, Hui Jing The Bergman kernel of a class of generalized analytic functions. (Chinese. English summary) **90a:30138**
Charpentier, Philippe *see* **Bonami, Aline, 90b:32048**
Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (*see* **90k:41001**)
— ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**
Faraut, J. (*with* Korányi, A.) Function spaces and reproducing kernels on bounded symmetric domains. **90m:32049**
Ghatage, P. (*with* Mandrekar, V.) On Beurling type invariant subspaces of $L^2(\mathbf{T}^2)$ and their equivalence. **90i:47005**
Guadalupe Garcia, Rafael *see* **Torrano, E., 90k:42044**
Jakóbczak, Piotr (*with* Mazur, Tomasz) On discontinuity of L^2-angle. **90j:32024**
Janson, Svante *see* **Boman, Jan; et al., 90i:47031**
Johnson, W. B. (*with* Schechtman, G.) Martingale inequalities in rearrangement invariant function spaces. **90g:60048**
Kaneko, Akira Note on the reproducing property of the Bergman kernel. **90m:32018**
Korányi, A. *see* **Faraut, J., 90m:32049**
Ligocka, Ewa On the Forelli-Rudin construction and weighted Bergman projections. **90i:32034**
Mandrekar, V. *see* **Ghatage, P., 90i:47005**
Martens, Franciscus Johannes Ludovicus ★ Spaces of analytic functions on inductive/projective limits of Hilbert spaces. **90k:46051**
Mazur, Tomasz *see* **Jakóbczak, Piotr, 90j:32024**
Nagel, A. (*with* Rosay, J.-P.; Stein, E. M.; Wainger, S.) Estimates for the Bergman and Szegő kernels in $\mathbf{C}^2$. **90g:32028**
Peetre, Jaak *see* **Boman, Jan; et al., 90i:47031**
Rosay, J.-P. *see* **Nagel, A.; et al., 90g:32028**
Rovnyak, James Coefficient estimates for Riemann mapping functions. **90f:30030**
Sampieri, Umberto Lie group structures and reproducing kernels on homogeneous Siegel domains. **90f:32033**
Sarason, Donald Nearly invariant subspaces of the backward shift. **90m:47012**
Schechtman, G. *see* **Johnson, W. B., 90g:60048**
Stein, E. M. *see* **Nagel, A.; et al., 90g:32028**
Torrano, E. (*with* Guadalupe Garcia, Rafael) Zeros of orthogonal polynomials on harmonic algebraic curves. **90k:42044**
Wainger, S. *see* **Nagel, A.; et al., 90g:32028**
Watanabe, Hiroshi[1] On the diagonalization in Bergman spaces. **90k:32022**
Wolf, Edwin Superharmonic functions and bounded point evaluations. **90h:31002**
Zhu, Ke He Hilbert-Schmidt Hankel operators on the Bergman space. **90k:47060**

46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15.}

Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. **90m:46042**
Jarosz, K. Nonlinear generalizations of the Banach-Stone theorem. **90h:46047**
Kaufman, Robert P. Metric spaces and ideals of functions. **90m:46043**
Pavone, Marco On the positive linear functionals on the disc algebra. **90i:46049**
Scheffold, Egon Über FF-Banachverbandsalgebren $C(K)$ und ihren assoziierten Operator. (English summary) [On FF-Banach lattice algebras $C(K)$ and their associated operator] **90f:46046**

Items with secondary classifications in 46E25

Al-Ezeh, H. Pure ideals in commutative reduced Gel′fand rings with unity. **90h:13001**
Arkhangel′skiĭ, A. V. On linear topological and topological classification of spaces $C_p(X)$. (Serbo-Croatian summary) **90i:54042**
Balibrea Gallego, Francisco Transformations between spaces of almost convergent continuous functions. (Spanish. English summary) **90b:46025**
Bjon, S. (*with* Lindström, Mikael) On a bornological structure in infinite-dimensional holomorphy. **90i:46085**
Borichev, A. A. Convolution equations and the structure of 1- and 2-invariant subspaces in the scale of spaces of rough growth. **90d:46063**
Ellis, A. J. Algebraic structure in complex function spaces. **90b:46108**
Kalamidas, N. (*with* Zachariades, Th.) An extension of a result on $l^1(\Gamma)$-embeddings. **90i:46031**
Li, Wu Lipschitz continuous metric selections in $C_0(T)$. **90k:41040**
Lindström, Mikael *see* **Bjon, S., 90i:46085**
Miminoshvili, M. R. An Inasaridze type homology of commutative rings. (Russian. English and Georgian summaries) **90b:13019**
Raşa, I. Norm-one projections on some function spaces. **90c:41072**
Samokhin, M. V. Boundary behavior of analytic functions in domains of arbitrary connection. (Russian. Armenian summary) **90c:30053**
Ustinov, G. M. *see* **Vlasov, L. P., 90a:46067**
Vlasov, L. P. (*with* Ustinov, G. M.) Closed faces of the unit ball in the spaces $C(Q)$ and $L^\infty(\mu)$. (Russian) **90a:46067**
Wada, Junzo *see* **Yamaguchi, Shinya, 90a:46132**
Wolter, Jürgen Complementation of principal ideals in weighted (FN)-algebras of entire functions. **90d:46081**
Yamaguchi, Shinya (*with* Wada, Junzo) On peak sets for certain function spaces. **90a:46132**

Zachariades, Th. *see* **Kalamidas, N., 90i:46031**

46E27 Spaces of measures [see also 28A33]

Bouchitté, G. (*with* Valadier, M.) Integral representation of convex functionals on a space of measures. **90j:46030**

Drewnowski, L. When does ca(Σ, X) contain a copy of l_∞ or c_0? **90k:46057**

Lyons, Russell Topologies on measure spaces and the Radon-Nikodým theorem. **90b:46058**

Moussaoui, M. Convergence étroite, convergence simple, convergence au sens de Kuratowski et hypoconvergence dans l'espace des mesures. [Narrow convergence, simple convergence, convergence in the sense of Kuratowski and hypoconvergence in the space of measures] **90i:46050**

Schief, Andreas Topological properties of the addition map in spaces of Borel measures. **90g:46043**

— The continuity of subtraction and the Hausdorff property in spaces of Borel measures. **90j:46031**

Sentilles, Dennis Continuous analogues of Schur's lemma for l^1. **90i:46051**

Valadier, M. *see* **Bouchitté, G., 90j:46030**

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Constantinescu, Corneliu Some properties of spaces of measures. **90d:28008**

Khurana, Surjit Singh (*with* Othman, Sadoon Ibrahim) Convex compactness property in certain spaces of measures. **90b:46077**

— (*with* Othman, Sadoon Ibrahim) Grothendieck measures. **90f:46057**

Othman, Sadoon Ibrahim *see* **Khurana, Surjit Singh, 90b:46077** *and* **90f:46057**

Sugita, Hiroshi Positive generalized Wiener functions and potential theory over abstract Wiener spaces. **90c:60036**

You, Zhong Tent spaces on Lipschitz domains. (Chinese. English summary) **90i:46074**

46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, etc.)

Akishev, G. A. *see* **Smailov, E. S., (90d:00046)**

Álvarez, Sergio Lattices generated by collections of L^p-spaces. (Spanish) **90m:46044**

Ballo, M. (*with* Semënov, E. M.) Operator characterizations of Marcinkiewicz spaces. (Russian) **90b:46059**

Berkes, István On almost symmetric sequences in L_p. **90m:46045**

Blei, Ron C. (*with* Fournier, John J. F.) Mixed-norm conditions and Lorentz norms. **90h:46048**

Bru, Bernard (*with* Heinich, Henri) Applications de dualité dans les espaces de Köthe. (English summary) [Duality maps in Köthe spaces] **90m:46046**

Brunet, Bernard Une démonstration nonstandard du théorème de représentation de Stone. [A nonstandard proof of the Stone representation theorem] **90h:46049**

Bùi Kho'i Đàm The dual of the martingale Hardy space $\mathscr{H}_\Phi$ with general Young function Φ. (Russian summary) **90h:46050**

Carothers, N. L. (*with* Dilworth, S. J.) Geometry of Lorentz spaces via interpolation. **90g:46044**

— (*with* Dilworth, S. J.) Equidistributed random variables in $L_{p,q}$. **90g:46045**

Castaing, C. (*with* Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. **90a:46063**

Chen, Li^2 Inequalities for weighted interpolation in the space $\Lambda(X)$. (Chinese) **90i:46052**

Chen, Shu Tao Smooth points of Orlicz spaces. (Chinese. English summary) **90i:46053**

— *see also* **Wang, Yu Wen, 90k:46065**

Deeb, W. Multipliers and isometries of Orlicz spaces. **90a:46064**

Dilworth, S. J. A scale of linear spaces related to the L_p scale. **90m:46047**

— (*with* Trautman, D. A.) On two function spaces which are similar to L_0. **90f:46047**

— *see also* **Carothers, N. L., 90g:46044** *and* **90g:46045**

Dzhgarkava, D. T. The space of interrupted functions and its applications. (Russian) **90b:46060**

Edgar, G. A. (*with* Sucheston, L.) On maximal inequalities in Orlicz spaces. **90k:46058**

Feichtinger, Hans G. Atomic characterizations of modulation spaces through Gabor-type representations. **90h:46051**

Florescu, Liviu C. Pseudouniform structures on $L^1(X, \mathscr{A}, \mu)$. **90j:46032**

— Pseudouniform structures and weak compactness on L^1. (Italian summary) **90c:46037**

Fournier, John J. F. *see* **Blei, Ron C., 90h:46048**

Grząślewicz, Ryszard Plane sections of the unit ball of L^p. **90h:46052**

Heinich, Henri *see* **Bru, Bernard, 90m:46046**

Horváth, John Michael Espaces de fonctions localement intégrables et de fonctions intégrables à support compact. [Spaces of locally integrable functions and of integrable functions with compact support] **90i:46054**

Hudzik, H. Orlicz spaces containing a copy of l^1. **90i:46055**

— On smallest and largest Orlicz spaces. **90j:46033**

— (*with* Maligranda, Lech) An interpolation theorem in symmetric function F-spaces. **90m:46048**

Kamińska, A. (*with* Musielak, J.) On approximation by Riemann sums in generalized Orlicz spaces. **90i:46056**

— *see also* **Castaing, C., 90a:46063**

Korenovskiĭ, A. A. The property of a maximal function $f^{\#}$ belonging to the Orlicz class. **90k:46059**

Kováčik, Ondrej Some properties of the spaces $\mathscr{L}^{p(t)}(\Omega)$. (Russian) (*see* **90k:00021**)

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Nogin, V. A. A method for the inversion and description of Bessel potentials with L_p-densities. (Russian) **90g:46055**
— Application of hypersingular integrals to the description of weighted spaces of differentiable functions. (Russian) **90k:46074**
— *see also* **Emgusheva, G. P., 90m:46054**
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— (*with* Gurka, Petr) A_r-condition for two weight functions and compact imbeddings of weighted Sobolev spaces. **90a:46079**
— (*with* Gurka, Petr) Continuous and compact imbeddings of weighted Sobolev spaces. II. (Russian and Czech summaries) **90e:46027**
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— An analogue of the F. and M. Riesz theorem for spaces of differentiable functions. **90a:46080**
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Rozhkovskaya, T. N. Convex sets in $W_p^1(\Omega)$ and their normal cones. Applications to variational inequalities. **90i:46068**
Rubin, B. S. Lizorkin-type spaces on a ray and fractional integration of generalized functions. (Russian) **90g:46056**
Rustamov, Kh. P. On differential-smoothness properties of functions in the space $W^lH^{\omega}_{p,r}(S^n)$ on a sphere. **90h:46068**
Salieva, O. A. Direct and converse imbedding theorems for seminormed spaces. (Russian summary) **90k:46075**
Schüffler, Karl-Heinz On holomorphic functions on Riemann surfaces and the Riemann-Hilbert problem. **90k:46076**
Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) **90e:46028**
Shaposhnikova, T. O. Multipliers in the space of Bessel potentials as traces of multipliers in weighted classes. (Russian. English summary) **90k:46077**
Shevchik, V. V. On the Fourier transformation as an operator of dense embedding. (Russian) **90j:46037**
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Simonov, B. V. On conditions for the mixed derivatives to belong to the spaces L_p. (Russian) (*see* **90m:00040**)
Sobolev, S. L. ★ Некоторые применения функционального анализа в математической физике. (Russian) [Some applications of functional analysis in mathematical physics] **90m:46059**
— ★ Избранные вопросы теории функциональных пространств и обобщенных функций. (Russian) [Selected problems in the theory of function spaces and generalized functions] **90m:46060**
Sobukawa, Takuya Interpolation theory on Sobolev spaces over the abstract Wiener space. **90k:46078**
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Triebel, H. How to measure smoothness of distributions on Riemannian symmetric manifolds and Lie groups? (German and Russian summaries) **90a:46081**
— Local approximation spaces. (German and Russian summaries) **90k:46079**
Troianiello, Giovanni M. A class of weighted function spaces, and intermediate Caccioppoli-Schauder estimates. **90d:46052**
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Vodop′yanov, S. K. Geometric properties of domains and mappings. Lower bounds on the norm of the extension operator. (Russian) **90e:46029**
— ★ Формула Тейлора и функциональные пространства. (Russian) [Taylor's formula and function spaces] **90j:46038**
— Intrinsic geometries and boundary values of differentiable functions. I. **90j:46039**
— Mappings of homogeneous groups and embeddings of function spaces. **90m:46061**
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Youssfi, Abdellah Localisation des espaces de Besov homogènes. [Localization of homogeneous Besov spaces] **90d:46048**
Zamboni, Pietro Some function spaces and elliptic partial differential equations. **90k:46080**
Zarnadze, D. N. Infinite-order Sobolev spaces and the nuclearity of embedding operators. (Russian) **90e:46030**
Ziemer, William P. Uniform differentiability of Sobolev functions. **90f:46054**

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Ahern, Patrick Some topics from the theory of functions in the unit ball. **90i:32009**
— (*with* Cohn, William S.) Exceptional sets for Hardy Sobolev functions, $p>1$. **90m:32013**
Ambrosio, L. (*with* Buttazzo, Giuseppe; Leaci, A.) Continuous operators of the form $T_f(u)=f(x,u,Du)$. (Italian summary) **90a:47167**
Appell, Jürgen Explicit formulas for Sadovskij functionals in function spaces. **90k:47112**
Batuev, È. N. (*with* Stepanov, V. D.) Weighted inequalities of Hardy type. **90f:26017**
Beatrous, F. (*with* Burbea, J.) Holomorphic Sobolev spaces on the ball. **90k:32010**
— (*with* Burbea, J.) Boundary regularity for harmonic Hardy-Sobolev spaces. **90f:32009**

Benkirane, A. (*with* Gossez, Jean-Pierre) An approximation theorem in higher order Orlicz-Sobolev spaces and applications. **90c:35085**

Bethuel, Fabrice Approximation dans des espaces de Sobolev entre deux variétés et groupes d'homotopie. (English summary) [Approximation in Sobolev spaces between two manifolds and homotopy groups] **90d:58024**

Bezrukova, O. L. (*with* Dairbekov, N. S.; Kopylov, A. P.) On mappings close in the C-norm to classes of solutions of linear elliptic systems of partial differential equations. (Russian) **90c:35099**

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Bogomolova, E. P. Necessary conditions for the basis property in the direct sum of Sobolev spaces. (Russian) (Not in MR)

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Bourgain, J. (*with* Gromov, Mikhael L.) Estimates of Bernstein widths of Sobolev spaces. **90g:41034**

Brown, Russell M. The initial-Neumann problem for the heat equation in Lipschitz cylinders. **90k:35112**

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Buttazzo, Giuseppe *see* **Ambrosio, L.; et al., 90a:47167**

Chernyavskaya, N. A. Diameters of the embedding of the weighted space $H_p(\mathcal{J}_+)$ in $L_p(\mathcal{J}_+)$. (Russian) **90c:41052**

Cohn, William S. Nonisotropic Hausdorff measure and exceptional sets for holomorphic Sobolev functions. **90j:32008**

— *see also* **Ahern, Patrick, 90m:32013**

Dairbekov, N. S. *see* **Bezrukova, O. L.; et al., 90c:35099**

De Cecco, Giuseppe (*with* Palmieri, Giuliana) On the regularity of eigenfunctions of the Laplace operator on a Lipschitz manifold. **90d:58157**

Dzhabrailov, M. S. Some vector-valued function B-spaces. (Russian. English and Azerbaijani summaries) **90k:46082**

Fournier, John J. F. *see* **Blei, Ron C., 90h:46048**

Franchi, Bruno (*with* Serapioni, R.) Pointwise estimates for a class of strongly degenerate elliptic operators: a geometrical approach. **90e:35076**

Frazier, M. (*with* Torres, R.; Weiss, Guido) The boundedness of Calderón-Zygmund operators on the spaces $\dot{F}_p^{\alpha,q}$. **90k:42029**

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Jones, Peter Wilcox Lipschitz and bi-Lipschitz functions. **90h:26016**

Kapitanskiĭ, L. V. Estimates for norms in Besov and Lizorkin-Triebel spaces for solutions of second-order linear hyperbolic equations. (Russian. English summary) **90m:35109**

Karapetyan, G. A. Stabilization at infinity to a polynomial of solutions of a class of regular equations. (Russian) **90j:35037**

Kenig, C. E. Restriction theorems, Carleman estimates, uniform Sobolev inequalities and unique continuation. **90m:35016**

Kerman, R. A. Weighted restriction theorems for Bessel potentials. (Russian summary) **90b:31005**

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Kornhuber, R. Local change of coordinates for grid-functions on regions with curved boundary. **90e:65170**

— Convergent extensions of grid-functions. **90e:65171**

Kurokawa, Takahide Weighted norm inequalities for Riesz potentials. **90j:26022**

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Langenbruch, Michael Complemented kernels of partial differential operators in weighted spaces of (generalized) functions. **90f:46063**

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Liu, Gui Zhong The construction of regular spaces and hyperspaces with respect to a particular operator. **90b:47072**

Lizorkin, P. I. (*with* Shakhmurov, V. B.) Embedding theorems for vector-valued functions. I. (Russian) **90k:46088**

— *see also* **Nikol′skiĭ, S. M.; et al., 90b:35104**

Marangunic, Pedro Roberto Distributions and Sobolev spaces. (Spanish) **90f:46060**

Martins, Jorge Antonio Sanpaio Approximation numbers of maps on Besov sequence spaces. **90j:47025**

McLeod, J. B. (*with* Peletier, L. A.) Observations on Moser's inequality. **90d:26029**

Meshkov, V. Z. A weighted inequality of Hardy type for elliptic operators and its applications. **90a:35076**

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Mizuta, Yoshihiro Continuity properties of Riesz potentials and boundary limits of Beppo Levi functions. **90m:31010**

Motos, J. (*with* Planells, María Jesús) A note on the vector-valued anisotropic Sobolev spaces $L_\Gamma^p(E)$. (Spanish. English summary) **90j:46042**

Muramatu, Tosinobu Besov spaces and analytic semigroups of linear operators. **90k:47088**

Nasibov, Sh. M. Optimal constants in some Sobolev inequalities and their applications to the nonlinear Schrödinger equation. **90m:35051**

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Nicolau, Artur The corona property for bounded analytic functions in some Besov spaces. **90m:46090**

Nikol′skiĭ, S. M. (*with* Lizorkin, P. I.; Miroshin, N. V.) Weighted function spaces and their applications to the investigation of boundary value problems for degenerate elliptic equations. **90b:35104**

O'Farrell, A. G. The order of a symmetric concrete space. **90b:46081**

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Onneweer, C. W. (*with* Su, Wei Yi) Homogeneous Besov spaces on locally compact Vilenkin groups. **90b:43004**

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Peng, Li Zhong Hankel operators on the Paley-Wiener space in $\mathbf{R}^d$. **90h:47050**

Pesenson, I. Z. On the abstract theory of Nikol′skiĭ-Besov spaces. **90a:46193**

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Rodino, Luigi Pseudodifferential operators with multiple characteristics and Gevrey classes. (*see* **90m:35003**)

Roĭtberg, Ya. A. Hyperbolic problems in a complete scale of Sobolev-type spaces. (Russian) (*see* **90k:00021**)

— (*with* Sheftel′, Z. G.) On the denseness of solutions to elliptic problems with localized right-hand sides in function spaces on a manifold. **90i:35118**

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Saloff-Coste, Laurent Inégalités de Sobolev produit sur les groupes de Lie nilpotents. [Product Sobolev inequalities on nilpotent Lie groups] **90m:22028**

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— Imbedding theorems for elliptic and parabolic operators in the space C. **90j:47066**

— Embedding theorems for elliptic and parabolic operators in C. **90d:35076**

Sogge, C. D. Remarks on L^2 restriction theorems for Riemannian manifolds. **90h:42047**

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Straube, Emil J. Interpolation between Sobolev and between Lipschitz spaces of analytic functions on starshaped domains. **90c:46036**

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Subbotin, Yu. N. Norms of interpolation splines of odd degree in the space W_2^k. **90c:41021**

Sviridyuk, G. A. On the manifold of solutions of a problem on the dynamics of an incompressible viscoelastic fluid. (Russian) **90b:35192**

Talagrand, Michel The canonical injection from $C([0,1])$ into $L_{2,1}$ is not of cotype 2. **90b:46064**

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Temlyakov, V. N. Estimates for the asymptotic characteristics of classes of functions with bounded mixed derivative or difference. (Russian) **90g:41037**

Timoshin, O. A. Best approximation of partial differential operators. **90i:35016**

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Transirico, Maria (*with* Troisi, Mario) Second-order nonvariational elliptic equations in unbounded open sets. (Italian. English summary) **90e:35056**

Troisi, Mario *see* **Transirico, Maria, 90e:35056**

Wannebo, Andreas Hardy inequalities. **90h:26025**

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46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables

Bulabaev, A. T. (*with* Mustafina, L. M.) Some difference embedding theorems. (Russian. Kazakh summary) **90j:46040**

Kolodiĭ, Ī. M. (*with* Verba, I. I.) A difference analogue of a theorem on the embedding of the anisotropic Sobolev space $\mathring{W}_{p_1,\cdots,p_n}^1$. **90i:46069**

Matsokin, A. M. (*with* Nepomnyashchikh, S. V.) ★ Нормы в пространстве следов сеточных функций. (Russian) [Norms in a space of traces of difference functions] **90b:46074**

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46E40 Spaces of vector- and operator-valued functions

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— Vector-valued Hardy spaces from operator theory. **90h:46069**

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Cambern, Michael (*with* Greim, Peter) Uniqueness of preduals for spaces of continuous vector functions. **90g:46057**

— (*with* Jarosz, K.) The isometries of $H_{\mathscr{X}}^1$. **90a:46083**

— (*with* Jarosz, K.) Ultraproducts, ε-multipliers, and isomorphisms. **90c:46047**

— (*with* Jarosz, K.) Isometries of spaces of weak $*$ continuous functions. **90e:46031**

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Dowling, Patrick N. Complemented copies of c_0 in vector valued Hardy spaces. **90a:46084**

Dzhabrailov, M. S. Some vector-valued function B-spaces. (Russian. English and Azerbaijani summaries) **90k:46082**

Emmanuele, G. Another proof of a result of N. J. Kalton, E. Saab and P. Saab on the Dieudonné property in $C(K,E)$. **90f:46055**

Fernandez, D. L. On Fourier multipliers of Banach lattice-valued functions. **90k:46083**

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Jarosz, K. Small isomorphisms of $C(X,E)$ spaces. **90f:46056**

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Jiménez Guerra, P. (*with* Rodríguez-Salinas, B.) On the completeness of L^α for locally convex spaces. **90a:46085**

Jordán Lluch, Cristina (*with* Torregrosa Sánchez, Juan Ramón) A characterization of the duals of some echelon Köthe spaces of Banach valued functions. **90c:46048**

Kadelka, Dieter (*with* Cremers, Heinz) Operator-type compactness criteria in the space $D^E[0,1]$. **90b:46076**

Kamińska, A. (*with* Turett, B.) Rotundity in Köthe spaces of vector-valued functions. **90k:46084**

Khalil, Roshdi (*with* Ayesh, Siham) Function spaces, absolutely summing operators and applications. **90k:46085**

Khurana, Surjit Singh (*with* Othman, Sadoon Ibrahim) Convex compactness property in certain spaces of measures. **90b:46077**

— (*with* Othman, Sadoon Ibrahim) Grothendieck measures. **90f:46057**

Klei, Heinz-Albrecht A compactness criterion in $L^1(E)$ and Radon-Nikodým theorems for multimeasures. (French summary) **90f:46058**

Koldobskiĭ, A. L. Isometries in the spaces $L_p(X;L_q)$ and equimeasurability. (Russian) **90k:46086**

Lin, Pei-Kee The isometries of $L^2(\Omega,X)$. **90k:46087**

Lizorkin, P. I. (*with* Shakhmurov, V. B.) Embedding theorems for vector-valued functions. I. (Russian) **90k:46088**

Mendoza, José Copies of l_∞ in $L^p(\mu;X)$. **90i:46071**

Motos, J. (*with* Planells, María Jesús) A note on the vector-valued anisotropic Sobolev spaces $L^p_\Gamma(E)$. (Spanish. English summary) **90j:46042**

Na, Qi Yuan The existence of a class of functionals on space $L_p(\mu,X)$. **90b:46078**

Nawrocki, M. On weak approximation and convexification in weighted spaces of vector-valued continuous functions. **90d:46054**

Núñez, Carmelo Characterization of Banach spaces of continuous vector valued functions with the weak Banach-Saks property. **90a:46086**

Núñez Sanz, Carmelo (*with* Porras, B.) A note on spaces of vector-valued continuous functions. (Spanish. English summary) **90a:46087**

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Papageorgiou, Nikolaos S. Decomposable sets in the Lebesgue-Bochner spaces. **90b:46079**

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Rao, T. S. S. R. K. A note on the $R_{n,k}$ property for $L^1(\mu,E)$. **90d:46055**

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Sternfeld, Yaki (*with* Weit, Yitzhak) An approximation theorem for vector valued functions. **90k:46089**

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Turett, B. *see* **Kamińska, A., 90k:46084**

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Yannelis, Nicholas C. Weak sequential convergence in $L_p(\mu,X)$. **90k:46090**

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Appell, Jürgen (*with* Nguyễn Hồng Thái; Zabreĭko, P. P.) General existence theorems for quasilinear elliptic systems without monotonicity. **90k:35098**

Ball, J. M. (*with* Murat, François) Remarks on Chacon's biting lemma. **90g:46064**

Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) On algebras of vector-valued measures. (Spanish. English summary) **90k:46122**

— Operators from H^1 into a Banach space and vector valued measures. **90k:47065**

— Interpolation between $H^1_{B_0}$ and $L^p_{B_1}$. **90e:46021**

Blei, Ron C. (*with* Fournier, John J. F.) Mixed-norm conditions and Lorentz norms. **90h:46048**

Blondia, C. On the Radon-Nikodým property in locally convex spaces and the completeness of L^1_E. **90c:46026**

Bombal, Fernando On embedding l_1 as a complemented subspace of Orlicz vector valued function spaces. **90f:46034**

— (*with* Porras, B.) Strictly singular and strictly cosingular operators on $C(K,E)$. **90i:47032**

Bonet, José (*with* Dierolf, S.; Fernández, Carmen) Inductive limits of vector-valued sequence spaces. **90k:46020**

Bravo de la Parra, Rafael L_p-spaces and convergence theorems for vector integrals. (Spanish. English summary) **90b:46092**

Burkholder, Donald L. Differential subordination of harmonic functions and martingales. **90k:31004**

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Cascales, B. (*with* Orihuela, J.) On pointwise and weak compactness in spaces of continuous functions. **90m:46013**

Castaing, C. (*with* Kamińska, A.) Kolmogorov and Riesz type criteria of compactness in Köthe spaces. **90a:46063**

Cătuneanu, Irina $\mathscr{P}$-bounded operators and vector integrals. (Romanian) **90m:28010**

Cembranos, Pilar The hereditary Dunford-Pettis property for $l_1(E)$. **90i:46019**

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Constantinescu, T. Operator Schur algorithm and associated functions. **90a:47018**

Deeb, W. (*with* Khalil, Roshdi) Best approximation in $L^p(I,X)$, $0<p<1$. **90i:41042**

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Haydon, Richard Random Banach spaces and direct integrals. **90i:46042**

Jamison, J. E. (*with* Rajagopalan, Minakshisundaram) Weighted composition operator on $C(X,E)$. **90b:47052**

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Khalil, Roshdi *see* **Deeb, W., 90i:41042**

Konyagin, S. V. (*with* Tsar′kov, I. G.) Smoothing of mappings in normed spaces. **90a:46031**

Korobeĭnik, Yu. F. (*with* Melikhov, S. N.) Projective topologies of inductive limits of weighted function spaces. (Russian) **90d:46039**

Kozłowski, Wojciech M. Notes on modular function spaces. I, II. **90i:46057**

Li, Wu An intrinsic characterization of lower semicontinuity of the metric projection in $C_0(T,X)$. **90g:41038a**

— Various continuities of metric projections in $C_0(T,X)$. **90g:41038b**

Light, William A. Some more uniformly convex spaces. **90d:46029**

Liu, Li Wei Best L_p approximation of Lebesgue-Bochner summable functions. (Chinese. English summary) **90m:41042**

Mastyło, M. K-monotone spaces between spaces of absolutely summable series. **90k:46162**

Melikhov, S. N. *see* **Korobeĭnik, Yu. F., 90d:46039**

Murat, François *see* **Ball, J. M., 90g:46064**

Nguyễn Hồng Thái *see* **Appell, Jürgen; et al., 90k:35098**

Núñez, Carmelo A conjecture about the Dunford-Pettis property. **90m:46027**

Orihuela, J. *see* **Cascales, B., 90m:46013**

de Pagter, Ben Semigroups in spaces of Bochner integrable functions and their duals. **90k:47089**

Pathak, R. S. (*with* Paul, A. C.) Representations of ultradistributions of compact support by boundary values of analytic functions. **90i:46082**

Paul, A. C. *see* **Pathak, R. S., 90i:46082**

Płuciennik, Ryszard (*with* Wisła, Marek) Linear operators between Musielak-Orlicz spaces of vector valued functions. **90a:47080**

Porras, B. *see* **Bombal, Fernando, 90i:47032**

Prolla, João B. A generalized Bernstein approximation theorem. **90g:41055**

— (*with* Chiacchio, Ary O.) Proximinality of certain subspaces of $C_b(S;E)$. **90h:41037**

Rajagopalan, Minakshisundaram *see* **Jamison, J. E., 90b:47052**

Sastry, A. S. (*with* Swami, N. P. K.) WC-representable operators on $L_1(\mu,X)$. **90i:47035**

Shashkin, Yu. A. *see* **Ustinov, G. M., 90b:46021**

Swami, N. P. K. *see* **Sastry, A. S., 90i:47035**

Touré, Mamadouba Sur la comparaison des classes et espaces généralisés d'Orlicz de fonctions à valeurs dans un espace vectoriel topologique. [Comparison of generalized Orlicz classes and spaces of functions with values in a topological vector space] **90d:46043**

Tsar′kov, I. G. *see* **Konyagin, S. V., 90a:46031**

Ustinov, G. M. (*with* Shashkin, Yu. A.) Functionals that attain norms. (Russian) **90b:46021**

Wisła, Marek *see* **Płuciennik, Ryszard, 90a:47080**

Zabreĭko, P. P. *see* **Appell, Jürgen; et al., 90k:35098**

46E99 None of the above, but in this section

Balibrea Gallego, Francisco (*with* Vera, G.) Almost convergent functions and their multipliers. **90i:46072**

Chen, Yong Zhuo (*with* Lau, Ka Sing) Some new classes of Hardy spaces. **90f:46059**

Drużkowski, Ludwik M. Arcwise connectedness of some spaces of mapping. **90i:46073**

Lau, Ka Sing *see* **Chen, Yong Zhuo, 90f:46059**

Práger, M. Characterization of local bilinear forms. (Russian) (*see* **90k:00021**)

Ruess, W. M. (*with* Summers, W. H.) Integration of asymptotically almost periodic functions and weak asymptotic almost periodicity. **90d:46056**

Schmeelk, John Infinite-dimensional Fock spaces and an associated generalized Laplacian operator. **90g:46058**

Summers, W. H. *see* **Ruess, W. M., 90d:46056**

Vera, G. *see* **Balibrea Gallego, Francisco, 90i:46072**

You, Zhong Tent spaces on Lipschitz domains. (Chinese. English summary) **90i:46074**

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Abdurakhmanov, R. Some classes of holomorphic functions. II. (Russian. Tajiki summary) **90i:46076**

Agranovskiĭ, M. L. Möbius spaces of functions on the Shilov boundaries of classical domains of tube type. **90c:32048**

Ahern, Patrick (*with* Bruna, Joaquim) Maximal and area integral characterizations of Hardy-Sobolev spaces in the unit ball of $\mathbf{C}^n$. **90h:32011**

Arkhangel′skiĭ, A. V. ★ Топологические пространства функций. (Russian) [Topological function spaces] **90k:54022**

Bourdon, Paul (*with* Shapiro, Joel H.; Sledd, William T.) Fourier series, mean Lipschitz spaces, and bounded mean oscillation. **90j:42011**

Brown, Aldric L. Continuous selections for metric projections in spaces of continuous functions: on results of Thomas Fischer, results of Li Wu and the relation between them. **90m:41050**

Bruna, Joaquim *see* **Ahern, Patrick, 90h:32011**

Carothers, N. L. (*with* Dilworth, S. J.) Inequalities for sums of independent random variables. **90f:60005**

Castaing, C. Quelques résultats de convergence des suites adaptées. [Some results of convergence for adapted sequences] **90c:49018**

Chiarenza, Filippo (*with* Frasca, Michele) Morrey spaces and Hardy-Littlewood maximal function. **90f:42017**

Choe, Boo Rim Projections, the weighted Bergman spaces, and the Bloch space. **90h:32009**

Choi, Yun Sung Spaces of holomorphic mappings on locally convex spaces. **90b:46098**
Chui, C. K. (*with* He, Tian Xiao; Xu, Li Zhi) On a general class of multivariate linear smoothing operators. **90f:41022**
Das, Gokulananda (*with* Nanda, Sudarsan) Functional limits. **90i:40024**
Dechevski, L. T. On the constants of equivalence between some functional moduli and K-functionals. **90k:41020**
Dilworth, S. J. *see* **Carothers, N. L., 90f:60005**
Dogoński, Antoni (*with* Natkaniec, Tomasz) Simple examples of lattices generated by some families of functions. (Polish. English summary) **90d:26021**
Epifanov, O. V. Perturbation of the multiplication operator in spaces of analytic functions. (Russian) **90g:47056**
Fang, Gen Sun An estimate of the width of the class $W^r H^\omega$ of nonperiodic functions. (Chinese. English summary) **90b:41041**
Frasca, Michele *see* **Chiarenza, Filippo, 90f:42017**
Gabardo, Jean-Pierre Tempered distributions with spectral gaps. **90k:42027**
Ghoussoub, N. (*with* Lindenstrauss, J.; Maurey, B.) Analytic martingales and plurisubharmonic barriers in complex Banach spaces. **90f:46033**
Han, Yong Sheng A class of Hardy-type spaces. (Chinese. English summary) **90g:42038**
He, Tian Xiao *see* **Chui, C. K.; et al., 90f:41022**
Hernández, Eugenio (*with* Rochberg, Richard; Weiss, Guido) Interpolation of subspaces and quotient spaces by the complex method. **90f:46116**
Higuti, Isao La balayabilité au sens fort des noyau-fonctions continues du potentiel. [Strong balayageability of continuous function-kernels of the potential] **90c:31014**
Holschneider, M. Wavelet analysis on the circle. **90m:42040**
Ider, Mostéfa On the superposition of functions in Carleman classes. **90k:26042**
Isakov, N. M. The C^γ-property and approximately differentiable functions. **90c:26042**
Ivanov, Kamen G. A characterization of weighted Peetre K-functionals. **90h:41038**
Jacobsen, Jacob (*with* Stetkær, Henrik) Spaces in which Fredholm operators have well defined trace. **90f:46062**
Jaffard, S. Exposants de Hölder en des points donnés et coefficients d'ondelettes. (English summary) [Hölder exponents at given points and wavelet coefficients] **90k:46163**
— (*with* Meyer, Y.) Bases d'ondelettes dans des ouverts de $\mathbf{R}^n$. [Wavelet bases in open sets in $\mathbf{R}^n$] **90k:46164**
Jawerth, B. (*with* Milman, Mario) A theory of extrapolation spaces. First applications. (French summary) **90d:46103**
Kalton, N. J. Applications of an inequality for H_1-functions. **90k:46033**
Kaul, S. K. (*with* Naimpally, S. A.) Local compactness in function spaces. (Italian summary) **90e:54031**
Kolyada, V. I. On the relations between moduli of continuity in various metrics. (Russian) **90k:41021**
Kunth, Peter Einige Ergebnisse aus der nicht-multiplikativen B^q-Theorie. [Some results from nonmultiplicative B^q-theory] **90m:46012**
Lapidus, Michel L. Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus and generalized functional integral] **90m:46124**
Ligocka, Ewa A characterization of ellipsoids and balls in $\mathbf{C}^n$. **90m:32037**
Lindenstrauss, J. *see* **Ghoussoub, N.; et al., 90f:46033**
Liu, Tie Fu On the spaces V_p and $V_{1,C}$. (Chinese. English summary) **90d:26016**
Maurey, B. *see* **Ghoussoub, N.; et al., 90f:46033**
Meyer, Y. Ondelettes, fonctions splines et analyses graduées. [Wavelets, spline functions and graduated analyses] **90e:42047**
— *see also* **Jaffard, S., 90k:46164**
Milman, Mario *see* **Jawerth, B., 90d:46103**
Miś, Jerzy Lipschitzian operators of substitution in the space of vector functions of bounded variation. **90j:47089**
Mustăţa, Costică M-ideals in metric spaces. **90b:54019**
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Nanda, Sudarsan *see* **Das, Gokulananda, 90i:40024**
Natkaniec, Tomasz *see* **Dogoński, Antoni, 90d:26021**
Noell, Alan V. (*with* Wolff, Thomas H.) On peak sets for Lip α classes. **90k:30062**
Nomura, Takaaki A description of a space of holomorphic discrete series by means of the Fourier transform on the Šilov boundary. **90g:22023**
Ouyang, Cai Heng Some classes of functions with exponential decay in the unit ball of $\mathbf{C}^n$. **90i:32008**
Papageorgiou, Nikolaos S. Measurable multifunctions and their applications to convex integral functionals. **90f:49009**
Platonov, S. S. Invariant subspaces in some function spaces on an n-dimensional Lobachevskiĭ space. **90f:43013**
Robinson, Derek W. Lie groups and Lipschitz spaces. **90k:22018**
Rochberg, Richard The work of Coifman and Semmes on complex interpolation, several complex variables, and PDEs. **90f:46117**
— *see also* **Hernández, Eugenio; et al., 90f:46116**
Schmitt, Lothar M. A remark on Radon-Nikodým properties of ordered Hilbert spaces. **90a:46169**
Shapiro, Joel H. *see* **Bourdon, Paul; et al., 90j:42011**
Shields, Allen Cyclic vectors for multiplication operators. **90b:47056**
Sledd, William T. *see* **Bourdon, Paul; et al., 90j:42011**
Stankov, Dimcho K. Bounded hyper-analytic functions and the Shilov boundary. (Russian) **90j:46049**
Stetkær, Henrik *see* **Jacobsen, Jacob, 90f:46062**
Stone, A. H. The topology of close approximation. (*see* **90m:54004**)
Székelyhidi, László On a problem of S. Mazur. **90b:22003**
Truong Xuan Duc Ha Banach spaces of d.c. functions and quasidifferentiable functions. **90m:49011**
Wang, Shi Lin Boundedness of the Littlewood-Paley g-function on $\mathrm{Lip}_\alpha(\mathbf{R}^n)$ $(0<\alpha<1)$. **90j:42050**
Weiss, Guido *see* **Hernández, Eugenio; et al., 90f:46116**
Wolff, Thomas H. *see* **Noell, Alan V., 90k:30062**
Xu, Li Zhi *see* **Chui, C. K.; et al., 90f:41022**
Xu, Zhen Ze Strong approximation of conjugate Bochner-Riesz means in $H^p(T)$ ($\frac{1}{2}<p<1$ at the critical index. (Chinese. English summary) **90j:42055**
You, Zhong Weighted L^p estimates for commutators of a BMO function and a Hörmander multiplier. (Chinese) **90f:47079**
Zakharov, Valeriĭ Konstantinovich Lebesgue cover and Lebesguean extension. **90i:54044**
Zhang, Ke Wei[1] A weak-strong convergence theorem and its applications. **90k:49015**
Zhang, Yan[2] Convergence and approximation properties of generalized Abel means on real $H^p(\mathbf{R}^n)$ spaces $(0<p\le 1)$. (Chinese. English summary) **90a:41016**
Zhu, Ke He Multipliers of BMO in the Bergman metric with applications to Toeplitz operators. **90m:42024**
Znamenskiĭ, S. V. Strong linear convexity. II. Existence of holomorphic solutions of linear systems of equations. **90e:32001**

46Fxx Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx.}

Marangunic, Pedro Roberto Distributions and Sobolev spaces. (Spanish) **90f:46060**

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Sobolev, S. L. ★ Избранные вопросы теории функциональных пространств и обобщенных функций. (Russian) [Selected problems in the theory of function spaces and generalized functions] **90m:46060**
(Uspenskiĭ, S. V.) *see* **Sobolev, S. L., 90m:46060**
Vladimirov, V. S. Generalized functions over the field of p-adic numbers. **90c:46096**
Zuily, C. ★ Problems in distributions and partial differential equations. **90d:46001**

46F05 Topological linear spaces of test functions and distributions

Abdullah, Saleh On the topology of the space of convolution operators in K'_M. **90m:46062**
Akhmedov, Sh. A. Some spaces of test functions and of infinitely differentiable functions. (Russian. Tajiki summary) **90d:46057**
van Eijndhoven, S. J. L. *see* **ter Elst, A. F. M., 90f:46061**
ter Elst, A. F. M. (*with* van Eijndhoven, S. J. L.) A Gevrey space characterization of certai Gel′fand-Shilov spaces S_α^β. **90f:46061**
— *see also* **de Graaf, Jan, 90d:46058**
de Graaf, Jan (*with* ter Elst, A. F. M.) An algebraic approach to distribution theories. **90d:46058**
Jacobsen, Jacob (*with* Stetkær, Henrik) Spaces in which Fredholm operators have well defined trace. **90f:46062**
Kinoshita, Moto-o Nonstandard representations of distributions. I. **90b:46080**
Langenbruch, Michael Extension of ultradifferentiable functions of Roumieu type. **90a:46088**
— Complemented kernels of partial differential operators in weighted spaces of (generalized functions. **90f:46063**
Meise, Reinhold (*with* Taylor, B. A.) A decomposition lemma for entire functions and its applications to spaces of ultradifferentiable functions. **90i:46075**
— Sequence space representations for zero-solutions of convolution equations on ultradifferentiable functions of Roumieu type. **90a:46089**
Mikusiński, P. Boehmians and generalized functions. **90a:46090**
O'Farrell, A. G. The order of a symmetric concrete space. **90b:46081**
Pilipović, S. On the space $\mathscr{D}'^{(M_p)}_{L^q}$, $q\in[1,\infty]$. **90a:46091**
— On the quasiasymptotic of Schwartz distributions. **90a:46093**
— On the convolution in the space $\mathscr{D}'^{(M_p)}_{L^2}$. **90a:46094**
— On the Laguerre expansions of generalized functions. **90a:46092**
Saleh, Abdullah Algebraic characterization of $\mathscr{K}_p'$; $p\ge 1$. **90h:46070**
Schmeelk, John Infinite-dimensional Fock spaces and associated creation and annihilation operators. **90c:46049**
Stetkær, Henrik *see* **Jacobsen, Jacob, 90f:46062**
Taylor, B. A. *see* **Meise, Reinhold, 90i:46075**
Uryga, J. On compatibility of supports of generalized functions of Gel′fand-Shilov type. (Russian summary) **90k:46091**

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Abdurakhmanov, R. Some classes of holomorphic functions. II. (Russian. Tajiki summary) **90i:46076**
Bonet, José (*with* Meise, Reinhold; Taylor, B. A.) Whitney's extension theorem for ultradifferentiable functions of Roumieu type. **90m:46035**
van Eijndhoven, S. J. L. (*with* Kruszyński, Paweł) Spectral trajectories, duality and inductive-projective limits of Hilbert spaces. **90a:47115**
Feichtinger, Hans G. Atomic characterizations of modulation spaces through Gabor-type representations. **90h:46051**
Giga, Yoshikazu (*with* Miyakawa, Tetsuro) Navier-Stokes flow in $\mathbf{R}^3$ with measures as initial vorticity and Morrey spaces. **90e:35130**
Gorodetskiĭ, V. V. Some theorems on the stabilization of solutions of the Cauchy problem for systems that are parabolic in the sense of Shilov in classes of generalized functions. **90a:35023**
Gracia-Bondía, José M. (*with* Várilly, Joseph C.) Algebras of distributions suitable for phase-space quantum mechanics. I. **90a:81038**
— *see also* **Várilly, Joseph C., 90a:81039**
Junek, Heinz (*with* Tran Van Vuong) On modulation spaces. (German and Russian summaries) **90k:46070**
Kamiński, A. (*with* Uryga, J.) Convolution in $K'\{M_p\}$-spaces. **90b:46083**
Kruszyński, Paweł *see* **van Eijndhoven, S. J. L., 90a:47115**
Kurokawa, Takahide Riesz potentials, higher Riesz transforms and Beppo Levi spaces. **90e:46025**
Lassner, Gerd (*with* Lassner, Gisela A.) Qu^*-algebras and twisted product. **90h:47087**

Lassner, Gisela A. *see* **Lassner, Gerd, 90h:47087**
Liu, Gui Zhong The construction of regular spaces and hyperspaces with respect to a particular operator. **90b:47072**
Liu, Shang Ping Generalized functions and selfadjoint operators. (Chinese) **90b:47040**
Meise, Reinhold (*with* Taylor, B. A.) Linear extension operators for ultradifferentiable functions of Beurling type on compact sets. **90c:46034**
— *see also* **Bonet, José; et al., 90m:46035**
Miyakawa, Tetsuro *see* **Giga, Yoshikazu, 90e:35130**
Nakagami, Keiko Integration and differentiation of δ-function. V. **90a:46098**
Pilipović, S. Some operations in Σ'_α, $\alpha > \frac{1}{2}$. (Serbo-Croatian summary) **90h:46072**
Rubin, B. S. Lizorkin-type spaces on a ray and fractional integration of generalized functions. (Russian) **90g:46056**
de Sousa Pinto, J. Periodic Silva tempered ultradistributions. **90m:46071**
Taylor, B. A. *see* **Meise, Reinhold, 90c:46034** *and* **Bonet, José; et al., 90m:46035**
Tomić, Miloš One product of distributions. **90d:46062**
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Triebel, H. How to measure smoothness of distributions on Riemannian symmetric manifolds and Lie groups? (German and Russian summaries) **90a:46081**
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Várilly, Joseph C. (*with* Gracia-Bondía, José M.) Algebras of distributions suitable for phase-space quantum mechanics. II. Topologies on the Moyal algebra. **90a:81039**
— *see also* **Gracia-Bondía, José M., 90a:81038**

46F10 Operations with distributions

Abdullah, Saleh Convolution equations in Beurling's distributions. **90b:46082**
Abdurakhmanov, R. Some classes of holomorphic functions. II. (Russian. Tajiki summary) **90i:46076**
Boehme, Thomas K. Two theorems on the differentiation of regular convolution quotients. **90d:46059**
Braunss, G. (*with* Teubner, E.) On the representation of Slater-type densities by Gaussian densities. **90h:46071**
Burzyk, J. Nonharmonic solutions of the Laplace equation. **90f:46064**
Castro, F. M. de Oliveira Sur les équations de distribution. [On distribution equations] **90i:46077a**
— Sur les équations de distribution. II. (English summary) [On distribution equations. II] **90i:46077b**
Cheng, Lin Zhi (*with* Li, Cheng Kuan) The product of generalized functions. (Chinese) **90a:46095**
Colombeau, J.-F. Introduction to "new generalized functions" and multiplication of distributions. **90a:46096**
— (*with* Galé, José E.) Analytic continuation of generalized functions. **90d:46060**
Córdoba, A. Dirac combs. **90m:46063**
Estrada, Ricardo (*with* Kanwal, R. P.) An analysis for the delta function with support on the light cone. **90a:46097**
Fisher, Brian (*with* Todorov, T. D.) Operations with distribution vectors. **90f:46065**
— Some results on the neutrix convolution product of distributions. **90c:46050**
— On the product of distributions and the change of variable. **90f:46066**
— A result on the beta function. **90i:46078**
Galaz Fontes, Fernando A justification of the theory of Schwartz distribution. (Spanish) **90k:46092**
Galé, José E. *see* **Colombeau, J.-F., 90d:46060**
Indu, B. D. *see* **Purohit, G. C., 90j:46044**
Kamiński, A. (*with* Uryga, J.) Convolution in $K'\{M_p\}$-spaces. **90b:46083**
Kanwal, R. P. *see* **Estrada, Ricardo, 90a:46097**
Kartashova, L. V. (*with* Rogozhin, V. S.) The problem of the jump and the Sokhotski formulas in the space of generalized functions on a segment of the real axis. **90d:46061**
Kuznetsov, Sergeĭ Vladimirovich Extension of the concept of convolution in the spaces $B_{\infty,k}$ of generalized functions of slow growth. (Russian) **90m:46064**
Li, Cheng Kuan Powers of Dirac distributions. (Chinese) **90b:46084**
— *see also* **Cheng, Lin Zhi, 90a:46095**
Marino, Giuseppe (*with* Pietramala, Paolamaria; Struppa, Daniele C.) Factorization of solutions of convolution equations. **90m:46065**
Mukhamadiev, È. On the theory of differential equations in a space of bounded generalized functions. (Russian. Tajiki summary) **90m:46066**
Nakagami, Keiko Integration and differentiation of δ-function. V. **90a:46098**
— Integration and differentiation of δ-function. VI. **90e:46032**
Napalkov, V. V. The Cauchy problem for convolution operators. (Russian) **90c:46051**
Perminov, V. V. Fundamental solutions of nonlinear differential convolution equations. (Russian) **90f:46067**
Pietramala, Paolamaria *see* **Marino, Giuseppe; et al., 90m:46065**
Pilipović, S. Some properties of the quasiasymptotic of Schwartz distributions. I. Quasiasymptotic at $\pm\infty$. **90b:46085**
— Some properties of the quasiasymptotic of Schwartz distributions. II. Quasiasymptotic at 0. **90b:46086**
— Asymptotic expansions of Schwartz's distributions. **90k:46093**
— Some operations in Σ'_α, $\alpha > \frac{1}{2}$. (Serbo-Croatian summary) **90h:46072**
Purohit, G. C. (*with* Indu, B. D.) Double point functions spread over generalized functions. **90j:46044**
Rogozhin, V. S. *see* **Kartashova, L. V., 90d:46061**
Sarrico, C. O. R. A note on a family of distributional products important in the applications. **90g:46059**
— About a family of distributional products important in the applications. **90f:46068**
Stanković, Bogoljub The asymptotic of elements belonging to $\mathscr{D}_{L^p}$ and $\mathscr{D}'_{L^p}$. (Serbo-Croatian summary) **90m:46067**
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Teubner, E. *see* **Braunss, G., 90h:46071**
Todorov, T. D. Colombeau's generalized functions and nonstandard analysis. **90b:46087**
— *see also* **Fisher, Brian, 90f:46065**
Tomić, Miloš One product of distributions. **90d:46062**
Uryga, J. *see* **Kamiński, A., 90b:46083**
Yakhin, R. A. An operator of singular integration in classes of generalized functions on the line. (Russian) **90g:46060**

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Ahuja, Gopi An application of fractional differentiation to study the product of two distributions. **90d:26009**
Ambrosio, L. A compactness theorem for a new class of functions of bounded variation. (Italian summary) **90k:49005**
— (*with* Dal Maso, Gianni) A general chain rule for distributional derivatives. **90j:26019**
Baker, John A. Functional equations, tempered distributions and Fourier transforms. **90k:39006**
Berenstein, Carlos A. (*with* Struppa, Daniele C.) Dirichlet series and convolution equations. **90d:30008**
Biagioni, H. A. The Cauchy problem for semilinear hyperbolic systems with generalized functions as initial conditions. **90d:35171**
Boehme, Thomas K. Some comments on the Burzyk-Paley-Wiener theorem for regular operators. **90b:44006**
Burzyk, J. A Paley-Wiener type theorem for regular operators of bounded support. **90m:42013**
Chaudhry, Muhammad Aslam (*with* Kazi, M. H.) Distributional $(n+1)$-dimensional heat equation. **90b:35109**
Christ, Michael Inversion in some algebras of singular integral operators. **90j:42041**
Colombeau, J.-F. The elastoplastic shock problem as an example of the resolution of ambiguities in the multiplication of distributions. **90m:35123**
Crăciunaş, P. On some trace theorems in Sobolev spaces. I. (Romanian summary) **90i:46061**
Crstici, Borislav *see* **Neagu, Mihai, 90d:39008**
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Epishina, E. N. (*with* Mesis, A. V.) Multiplication of hyperfunctions on the circle. (Russian) **90b:46089**
Gérardin, Paul Groupes commutatifs et positivité. (English summary) [Commutative groups and positivity] **90f:43002**
Gorodetskiĭ, V. V. The Cauchy problem for equations that are parabolic in the sense of Shilov in classes of generalized periodic functions. **90c:35108**
de Graaf, Jan (*with* ter Elst, A. F. M.) An algebraic approach to distribution theories. **90d:46058**
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Klötzler, Rolf On a distributional version of Pontryagin's maximum principle. **90b:49031**
Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. **90k:44005**
Krone, Jörg Partial differential operators without right inverse on the tempered distributions. **90j:35060**
Lanford, Oscar E., III (*with* Robinson, Derek W.) Fractional powers of generators of equicontinuous semigroups and fractional derivatives. **90d:47040**
Li, Zhu Ying Generalized functions containing the parameter t. (Chinese. English summary) (Not in MR)
Meise, Reinhold Sequence space representations for zero-solutions of convolution equations on ultradifferentiable functions of Roumieu type. **90a:46089**
Meisters, Gary Hosler Linear operators commuting with translations on $\mathscr{D}(\mathbf{R})$ are continuous. **90h:47055**
Mesis, A. V. *see* **Epishina, E. N., 90b:46089**
Mikusiński, P. On harmonic Boehmians. **90b:44007**
— A remark on regular operators. **90j:44012**
Miyachi, Akihiko Maximal functions for distributions on open sets. **90k:42038**
Neagu, Mihai (*with* Crstici, Borislav) Functional equations in distributions. **90d:39008**
— Definition and composition of pointwise concentrated forces. (Romanian summary) (*see* **90d:00043**)
Passare, Mikael A calculus for meromorphic currents. **90d:32020**
Persson, J. Invariance of the Cauchy problem for distribution differential equations. **90h:34006**
Pilipović, S. On the space $\mathscr{D}'^{(M_p)}_{L^q}$, $q \in [1, \infty]$. **90a:46091**
— On the quasiasymptotic of Schwartz distributions. **90a:46093**
Robinson, Derek W. *see* **Lanford, Oscar E., III, 90d:47040**
Ron, Amos A necessary and sufficient condition for the linear independence of the integer translates of a compactly supported distribution. **90g:41019**
Skinner, Ray (*with* Weil, John A.) An introduction to generalized functions and their application to static electromagnetic point dipoles, including hyperfine interactions. **90k:81275**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 90d:30008**
Weil, John A. *see* **Skinner, Ray, 90k:81275**
Wong, Roderick ★ Asymptotic approximations of integrals. **90j:41061**
Zavalishchin, S. T. The Cauchy formula for singular systems of differential equations. (Russian) **90c:34001**

46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

Agrawal, R. D. *see* **Jain, Prakash Chandra, 90a:46100** *and* **90i:46079**
Ahirrao, B. R. (*with* More, S. V.) On distributional Laplace-Hardy transformation. **90f:46069**
— (*with* More, S. V.) On distributional Laplace-Hardy $\mathscr{L}F_\nu$ transformation. **90k:46094**
Betancor, Jorge J. The Hankel-Clifford transformation on certain spaces of ultradistributions. **90f:46070**
Borichev, A. A. Convolution equations and the structure of 1- and 2-invariant subspaces in the scale of spaces of rough growth. **90d:46063**
Chaturvedi, V. K. *see* **Goyal, A. N., 90b:46088**
Chaudhary, M. S. *see* **Tekale, B. K., 90c:46052**

Duran, Antonio J. On Hankel transform. **90m:46068**
Fenyő, I. On the Hankel-transformation of Schwartz distributions. **90g:46061**
— On the generalized Hankel transformation. **90a:46099**
Ghosh, Badal Chandra (*with* Mahato, Ashok Kumar) On generalized Laplace transform for distribution. (Not in MR)
Goyal, A. N. (*with* Chaturvedi, V. K.) On generalized transcendental functions and distributional transforms. **90b:46088**
Jain, Prakash Chandra (*with* Agrawal, R. D.) Some properties of the dual space of testing function space for Mehler Fock transform. **90a:46100**
— (*with* Agrawal, R. D.) Structure of Mehler-Fock transformable generalized functions. **90i:46079**
Komatsu, Hikosaburo Laplace transforms of hyperfunctions: another foundation of the Heaviside operational calculus. **90a:46101**
Mahato, Ashok Kumar *see* **Ghosh, Badal Chandra**, (Not in MR)
Mishra, S. K. *see* **Pathak, R. S., 90m:46069**
Mishra, Tapas Kumar *see* **Sinha, Sunil Kumar**[1], (Not in MR)
More, S. V. *see* **Ahirrao, B. R., 90f:46069** *and* **90k:46094**
Nikolić-Despotović, Danica (*with* Pilipović, S.) Abelian theorem for the distributional Stieltjes transformation. **90a:46102**
Pathak, R. S. (*with* Mishra, S. K.) Asymptotic behaviours of a class of integral transforms in complex domains. **90m:46069**
Pilipović, S. Quasiasymptotic expansion of distributions from S'_+ and the asymptotic expansion of the distributional Stieltjes transform. **90m:46070**
— *see also* **Nikolić-Despotović, Danica, 90a:46102**
Rosenblatt, Joseph Determining a distribution from the modulus of its Fourier transform. **90h:46073**
Sharafutdinov, V. A. The ray transform of symmetric tensor fields. **90h:46074**
Singh, Om Prakash[1] The distributional Hankel transform, its inversion and application. **90i:46080**
Sinha, Sunil Kumar[1] On two new characterizations of the finite Sturm-Liouville transform for distributions. **90d:46064**
— (*with* Mishra, Tapas Kumar) The n-dimensional characterizations of the Fourier transform for distributions. (Not in MR)
de Sousa Pinto, J. Periodic Silva tempered ultradistributions. **90m:46071**
Takači, Arpad The n-dimensional Stieltjes transformation. **90d:46065**
Tekale, B. K. (*with* Chaudhary, M. S.) On Stieltjes transform of Banach-space-valued distributions. **90c:46052**
Tröger, G. A Tauberian theorem for the generalized S_2-transform of distributions. **90j:46045**

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Akhaury, S. K. (*with* Kumar, Vijoy) Final value type Abelian theorems for a distributional generalized Laplace transform. **90d:44001**
Ali, Muhammad Abdallah *see* **Koh, E. L.; et al., 90e:44003**
Betancor, Jorge J. The Hankel-Schwartz transform for function of compact support. **90d:44003**
— A mixed Parseval's equation and a generalized Hankel transformation of distributions. **90g:44002**
Chaudhary, M. S. On the characterization of distributional sine transforms. **90k:42026**
— *see also* **Kawade, L. J., 90d:44004**
Deeba, E. Y. *see* **Koh, E. L.; et al., 90e:44003**
Gabardo, Jean-Pierre Tempered distributions with spectral gaps. **90k:42027**
Ghosh, Badal Chandra The n-dimensional distributional complex Hankel and I-transformation of generalized functions. **90b:44002**
Kawade, L. J. (*with* Chaudhary, M. S.) On distributional Laplace-Hankel transformation and its application. **90d:44004**
Koh, E. L. (*with* Deeba, E. Y.; Ali, Muhammad Abdallah) On the generalized Meijer transformation. **90e:44003**
Kumar, Vijoy *see* **Akhaury, S. K., 90d:44001**
Kuznetsov, Sergeĭ Vladimirovich Extension of the concept of convolution in the spaces $B_{\infty,k}$ of generalized functions of slow growth. (Russian) **90m:46064**
Pathak, R. S. (*with* Paul, A. C.) Distributional boundary values in $(S^{a_k})'$-spaces of functions analytic in tubular radial domains. **90d:46066**
— (*with* Paul, A. C.) Distributional boundary values in $(W_M^\Omega)'$-spaces of functions holomorphic in tube domains. **90m:46073**
Paul, A. C. *see* **Pathak, R. S., 90d:46066** *and* **90m:46073**
Pilipović, S. On the behaviour of the distributional Stieltjes transformation at the origin. (German and Russian summaries) **90m:44009**
Saleh, Abdullah Algebraic characterization of $\mathscr{K}_p'$; $p \geq 1$. **90h:46070**
Sinha, Sunil Kumar[1] On two new characterizations of the Fourier transform for distributions. **90g:42019**
— On two new characterizations of the Hankel transform for distributions. **90c:44005**
Tiwari, A. K. On a distributional generalized Laplace transform. **90k:44002**
Vogl, Fritz Über das Cauchysche Anfangswertproblem für eine Klasse linearer partieller Funktional-Differentialgleichungen. [On the Cauchy initial value problem for a class of linear partial functional-differential equations] **90h:35229**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Epishina, E. N. (*with* Mesis, A. V.) Multiplication of hyperfunctions on the circle. (Russian) **90b:46089**
Ivanov, Valentin Konstantinovich (*with* Perminov, V. V.) ★ Нелинейные операторы в свертках: обыкновенные дифференциальные уравнения. (Russian) [Nonlinear convolution operators: ordinary differential equations] **90k:46095**
Kaneko, Akira A topological characterization of hyperfunctions with real analytic parameters. **90e:46033**
Komatsu, Hikosaburo Laplace transforms of hyperfunctions. **90i:46081**
Matsuzawa, Tadato A calculus approach to hyperfunctions. II. **90g:46062**
Mesis, A. V. *see* **Epishina, E. N., 90b:46089**
Perminov, V. V. *see* **Ivanov, Valentin Konstantinovich, 90k:46095**

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Brüning, Erwin (*with* Nagamachi, S.) Hyperfunction quantum field theory: basic structura
results. **90i:81053**
(Fantappiè, Luigi) *see* **Struppa, Daniele C., 90c:01048**
Ito, Yoshifumi Fourier hyperfunctions of general type. **90a:32010**
Kaneko, Akira ★ Introduction to hyperfunctions. **90m:32017**
— On hyperfunctions with analytic parameters. **90c:32010**
— Note on the reproducing property of the Bergman kernel. **90m:32018**
(Kashiwara, Masaki) *see* **Summary of Masaki Kashiwara's "The study of algebraic analysis"**
90m:01005
Kawai, Takahiro (*with* Matsuzawa, Tadato) On the boundary value of a solution of the hea
equation. **90j:35104**
Komatsu, Hikosaburo Operational calculus, hyperfunctions and ultradistributions. **90k:44005**
— Laplace transforms of hyperfunctions: another foundation of the Heaviside operational calculus. **90a:46101**
Laurent, Yves Problème de Cauchy pour les hyperfonctions à croissance. [Cauchy problem for increasing hyperfunctions] **90m:58197**
(Mashanov, V. I.) *see* **Yosida, Kôsaku, 90k:44008**
Matsuzawa, Tadato *see* **Kawai, Takahiro, 90j:35104**
Nagamachi, S. *see* **Brüning, Erwin, 90i:81053**
Ôaku, Toshinori Higher-codimensional boundary value problem and F-mild hyperfunctions. **90k:58208**
Perminov, V. V. Fundamental solutions of nonlinear differential convolution equations. (Russian) **90f:46067**
(Radyno, Ya. V.) *see* **Yosida, Kôsaku, 90k:44008**
Struppa, Daniele C. Luigi Fantappiè and the theory of analytic functionals. (Italian) **90c:01048**
(Yamamoto, Yutaka) *see* **Kaneko, Akira, 90m:32017**
Yosida, Kôsaku ★ Операционное исчисление. (Russian) [Operational calculus] **90k:44008**
Zayed, Ahmed I. Generalized Faber expansions of hyperfunctions on analytic curves. **90m:32019**

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Summary of Masaki Kashiwara's "The study of algebraic analysis" A summary of Masaki Kashiwara's (physics Ph.D.) prize-winning investigation of "The study of algebraic analysis". (Japanese) **90m:01005**

46F20 Distributions as boundary values of analytic functions [see also 30Exx, 32A40]

Carmichael, Richard D. Values on the topological boundary of tubes. **90a:46103**
— (*with* Mitrović, Dragiša) ★ Distributions and analytic functions. **90m:46072**
— Distributional and L^2 boundary values on the topological boundary of tubes. **90h:46075**
Mitrović, Dragiša *see* **Carmichael, Richard D., 90m:46072**
Pathak, R. S. (*with* Paul, A. C.) Representations of ultradistributions of compact support by boundary values of analytic functions. **90i:46082**
— (*with* Paul, A. C.) Distributional boundary values in $(S^{a_k})'$-spaces of functions analytic i
tubular radial domains. **90d:46066**
— (*with* Paul, A. C.) Distributional boundary values in $(W_M^\Omega)'$-spaces of functions holomorphic in tube domains. **90m:46073**
Paul, A. C. *see* **Pathak, R. S., 90d:46066; 90i:46082** *and* **90m:46073**

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Karunakaran, V. Bieberbach functions and periodic distributions. **90i:32010**
Ôaku, Toshinori Higher-codimensional boundary value problem and F-mild hyperfunctions. **90k:58208**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Ishikawa, Shiro Products of Wiener functionals on an abstract Wiener space. **90c:46053**
Potthoff, Jürgen On Meyer's equivalence. **90i:46083**

Items with secondary classifications in 46F25

Friedrich, Jürgen Integral representations of positive definite matrix-valued distributions c
cylinders. **90k:43013**
Itô, Kiyosi Malliavin calculus on a Segal space. **90c:60035**
Krée, Paul Les structures fondamentales de l'analyse stochastique. (English summary) [Th
fundamental structures of stochastic analysis] **90b:60002**
Li, Yü Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. **90k:60125**
Röckner, M. Traces of harmonic functions and a new path space for the free quantum fiel
90b:81061
Schmeelk, John Infinite-dimensional Fock spaces and an associated generalized Laplacian operator. **90g:46058**
Sobukawa, Takuya Interpolation theory on Sobolev spaces over the abstract Wiener space. **90k:46078**
Tarieladze, V. I. The Fourier topology for infinite-dimensional spaces. (Russian) **90f:4607**

46F99 None of the above, but in this section

Sikorskii, M. R. Some applications of Boolean-valued models to the study of operators on semi-normed spaces. (Russian) **90j:46046**

Items with secondary classifications in 46F99

Cioranescu, Ioana On twice differentiable functions. (Not in MR)

Kawai, Takahiro Systems of linear differential equations of infinite order: an aspect of infinite analysis. **90j:58139**
Nemzer, Dennis Periodic Boehmians. **90k:44006**

46Gxx Measures, integration, derivative, holomorphy {For integration on infinite-dimensional spaces, see 28C20; for nonlinear functional analysis, see 58–XX, especially 58Cxx.}

Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. **90g:46063**
Wulbert, Daniel Liapanov's and related theorems. **90m:46074**

46G05 Derivatives

de Barra, G. (*with* Fitzpatrick, Simon; Giles, John) On generic differentiability of locally Lipschitz functions on Banach space. **90i:46084**
Dayal, Saheb (*with* Marwaha, Archana) Bounded and Fréchet differentials for mappings on linear topological spaces using pseudonorm topology. **90m:46075**
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les espaces de Sobolev en dimension infinie. (English summary) [On Sobolev spaces in infinite dimensions] **90d:46067**
Fitzpatrick, Simon *see* **de Barra, G.; et al., 90i:46084**
Frölicher, Alfred (*with* Kriegl, Andreas) ★ Linear spaces and differentiation theory. **90h:46076**
Giles, John *see* **de Barra, G.; et al., 90i:46084**
Horsley, Anthony (*with* Wrobel, Andrzej J.) Subdifferentials of convex symmetric functions: an application of the inequality of Hardy, Littlewood, and Pólya. **90b:46090**
Kriegl, Andreas *see* **Frölicher, Alfred, 90h:46076**
de La Pradelle, Arnaud *see* **Feyel, Denis, 90d:46067**
Li, Jun Sik Generalized differentials of discontinuous functionals in H-space and their applications. (Korean. English summary) (Not in MR)
Mânzatu, E. Fonctionnelles différentiables sur des espaces localement convexes. Applications dans la théorie générale des systèmes. (Romanian summary) [Functionals differentiable on locally convex spaces. Applications in general systems theory] **90k:46096**
Marwaha, Archana *see* **Dayal, Saheb, 90m:46075**
Németh, A. B. Subdifferentiability of convex operators ranging in latticially ordered Banach spaces. **90c:46054**
Ward, Doug The quantificational tangent cones. **90b:46091**
Wrobel, Andrzej J. *see* **Horsley, Anthony, 90b:46090**

Items with secondary classifications in 46G05

Aniţa, Sebastian^2 A characterization of the mean value equality in convex analysis. **90i:26016**
Balabanov, V. A. ★ Некоторые вопросы нелинейного функционального анализа и их применения. (Russian) [Some problems in nonlinear functional analysis and their applications] **90b:47096**
Balaganskiĭ, V. S. Fréchet differentiability of the distance function, and the structure of a set. **90d:46022**
Bendikov, A. D. (*with* Pavlov, I. V.) On the Poisson equation on the infinite-dimensional torus. **90e:35160**
Bogachev, V. I. (*with* Shkarin, S. A.) Differentiable and Lipschitz mappings of Banach spaces. **90b:58019**
de Figueiredo, Djairo ★ Lectures on the Ekeland variational principle with applications and detours. **90j:49006**
Findley, David F. Semireflexive spaces in which the theorem on the derivative-of-the-inverse fails for Fréchet derivatives. **90j:46005**
Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. **90m:46042**
Jofré, A. (*with* Thibault, L.) D-representation of subdifferentials of directionally Lipschitz functions. **90m:90302**
Kato, Nobuyuki On the second derivatives of convex functions on Hilbert spaces. **90b:47097**
Khrennikov, A. Yu. Infinite-dimensional pseudodifferential operators. **90e:47046**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **90c:46003**
Kutateladze, S. S. *see* **Kusraev, A. G., 90c:46003**
Kuzhen'kin, S. N. On the derivative of a sublinear projector. (Russian) (*see* **90m:00015**)
Liczberski, Piotr On Bavrin's families of holomorphic maps of Banach spaces into the complex plane. (Russian and Polish summaries) **90g:32004**
Lobanov, S. G. The chain rule and its converse for mappings of locally convex spaces. **90d:58018**
Madgerova, Andreana S. On the converse Taylor's theorem in linear topological spaces. **90h:58008**
Nel, Louis Daniel^1 Categorical differential calculus for infinite-dimensional spaces. (French summary) **90k:58016**
Pavlov, I. V. *see* **Bendikov, A. D., 90e:35160**
Petrakis, Minos (*with* Uhl, J. Jerry, Jr.) Differentiation in Banach spaces. **90b:46044**
Phạm Hũ'u Sách Differentiability of set-valued maps in Banach spaces. **90c:49027**
Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**
— ★ Continual means and boundary value problems in function spaces. **90m:35195**
Shkarin, S. A. *see* **Bogachev, V. I., 90b:58019**
Thibault, L. *see* **Jofré, A., 90m:90302**
Uglanov, A. V. The quotient of smooth measures is a smooth function. (Russian) **90m:46079**
Uhl, J. Jerry, Jr. *see* **Petrakis, Minos, 90b:46044**
Verona, Maria Elena On the differentiability of convex functions. **90j:58008**
(Vershik, A. M.) *see* **Polishchuk, E. M., 90a:35216** *and* **90m:35195**

46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Andreu, F. (*with* Mazón, J. M.; Segura de León, S.) A Radon-Nikodým theorem for Riesz space valued measures. **90m:46076**
Ball, J. M. (*with* Murat, François) Remarks on Chacon's biting lemma. **90g:46064**
Bravo de la Parra, Rafael L_p-spaces and convergence theorems for vector integrals. (Spanish. English summary) **90b:46092**
Dobrakov, Ivan Representation of multilinear operators on $\times C_0(T_i)$. **90c:46055**
— On integration in Banach spaces. XI. Integration with respect to polymeasures. **90k:46097**
Haluška, Ján On integration in locally convex spaces. **90g:46065**
Hashimoto, Kazuo Integration in mixed topological spaces. **90m:46077**
Jefferies, Brian (*with* Okada, Susumu) Archimedes integrals and conuclear spaces. **90k:46098**
Kadets, V. M. The domain of weak limits of Riemann integral sums of an abstract function. **90k:46099**
Kozhaev, Sh. M. An integral of a multivalued function in a Banach space. (Russian) **90e:46034**
Kruszyński, Paweł Vector measures on orthocomplemented lattices. **90a:46104**
Masani, P. R. (*with* Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. I. Scalar-valued measures on δ-rings. **90f:46071**
— (*with* Niemi, Hannu) The integration theory of Banach space valued measures and the Tonelli-Fubini theorems. II. Pettis integration. **90h:46077**
Mazón, J. M. *see* **Andreu, F.; et al., 90m:46076**
Murat, François *see* **Ball, J. M., 90g:46064**
Niemi, Hannu *see* **Masani, P. R., 90f:46071** *and* **90h:46077**
Okada, Susumu *see* **Jefferies, Brian, 90k:46098**
Pincket, J. P. On the Riesz representation theorem for vector valued measures. **90k:46100**
Rustichini, Aldo A counterexample and an exact version of Fatou's lemma in infinite-dimensional spaces. **90k:46101**
Segura de León, S. *see* **Andreu, F.; et al., 90m:46076**
Swartz, Charles The Nikodým boundedness theory for lattice-valued measures. **90m:46078**

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Aguayo, José (*with* Sánchez H., José A.) Weakly compact operators and the strict topologies. **90g:47053**
Areshkin, G. Ya. *see* **Klyuchnikov, A. E., 90a:28014**
Areshkina, A. G. Integrals of scalar functions with respect to a vector measure, and linear operators. (Russian) **90a:28013**
Ballve, M. E. L^α-spaces and bornological integration. (Spanish. English summary) **90j:46041**
Blasco De La Cruz, Oscar Positive p-summing operators, vector measures and tensor products. **90f:47026**
— Operators from H^1 into a Banach space and vector valued measures. **90k:47065**
Bravo de la Parra, Rafael Un théorème de la valeur moyenne pour des intégrales bilinéaires. (English summary) [A mean-value theorem for bilinear integrals] **90d:28009**
Cambern, Michael (*with* Greim, Peter) Uniqueness of preduals for spaces of continuous vector functions. **90g:46057**
Choy, Stephen T. L. Positive operators and algebras of dominated measures. **90g:47055**
Drewnowski, L. When does $\mathrm{ca}(\Sigma, X)$ contain a copy of l_∞ or c_0? **90k:46057**
Dubois, Jacques (*with* M'Khalfi, A.) Propriétés et théorèmes de convergence pour une intégrale de type Riemann généralisée. (English summary) [Properties and theorems of convergence for a generalized Riemann integral] **90c:26032**
van Dulst, D. ★ Characterizations of Banach spaces not containing l^1. **90h:46037**
Emmanuele, G. Another proof of a result of N. J. Kalton, E. Saab and P. Saab on the Dieudonné property in $C(K, E)$. **90f:46055**
Fernández y Fernández-Arroyo, Fidel José Fubini theorems in bilinear integration. (Spanish. English summary) **90d:28010**
Fiacca, Antonella The Burkhill-Cesari integral for Banach-space-valued set functions. (Italian. English summary) **90d:28012**
Fierro Bello, Carmen Weak compactness in Bochner-integrable functions, and the Radon-Nikodým property. (Spanish. English summary) **90f:46032**
Forte, B. *see* **Hughes, W. P., 90d:60063**
Gordon, Russell A. The Denjoy extension of the Bochner, Pettis, and Dunford integrals. **90b:28011**
Greim, Peter *see* **Cambern, Michael, 90g:46057**
Hughes, W. P. (*with* Forte, B.) The probabilistic distributional derivative: a different characterization of the Wiener process. (Italian summary) **90d:60063**
Jiménez Guerra, P. Differentiation of measures and bilinear vector integration. (Spanish) **90d:28011**
Klei, Heinz-Albrecht A compactness criterion in $L^1(E)$ and Radon-Nikodým theorems for multimeasures. (French summary) **90f:46058**
Klyuchnikov, A. E. (*with* Areshkin, G. Ya.) Integral representation of weakly additive, weakly homogeneous continuous operators. (Russian) **90a:28014**
Kristóf, János Spectral theorem for normal elements of GW^*-algebras. **90f:46112**
Kusraev, A. G. (*with* Malyugin, S. A.) Atomic decomposition of vector measures. **90k:28022**
Kutateladze, S. S. A remark on the limits of tangents. (Russian) **90c:58023**
Malyugin, S. A. *see* **Kusraev, A. G., 90k:28022**
M'Khalfi, A. *see* **Dubois, Jacques, 90c:26032**
Morales, Pedro A noncommutative version of the Brooks-Jewett theorem. **90f:06007**
Na, Qi Yuan The existence of a class of functionals on space $L_p(\mu, X)$. **90b:46078**
Nakanishi, Shizu Ranked-vector-space valued measures and the Radon-Nikodým theorem. **90c:28015**
Ohba, Sachio The Hewitt-Yosida decomposition. (Japanese summary) **90a:28017**
Panchapagesan, T. V. Some characterizations of extendible spectral measures. (Spanish) **90f:47044**
Papageorgiou, Nikolaos S. Decomposable sets in the Lebesgue-Bochner spaces. **90b:46079**
— Weak convergence and weak compactness for multifunctions with values in a separable

Banach space. **90m:28005**
Petrakis, Minos (*with* Uhl, J. Jerry, Jr.) Differentiation in Banach spaces. **90b:46044**
Ricker, Werner Vector measures with values in the compact operators. **90f:28007**
Riddle, Lawrence H. An application of Edgar's ordering of Banach spaces. **90g:46032**
Sánchez H., José A. *see* **Aguayo, José, 90g:47053**
Stochel, Jan The Fubini theorem for semispectral integrals and semispectral representations of some families of operators. **90a:47085**
Szczypiński, Tomasz Nonlinear operator valued measures and integration. **90i:28014**
Uhl, J. Jerry, Jr. *see* **Petrakis, Minos, 90b:46044**

46G12 Measures and integration on abstract linear spaces [see also 28Cxx]

Ahn, Jae Moon (*with* Chang, Kun Soo; Yoo, Il) Some Banach algebras of Yeh-Feynman integrable functionals. **90k:46102**
Bogachev, V. I. Differentiability and quasi-invariance of stable measures on infinite-dimensional spaces. (Russian) (*see* **90m:00040**)
Chang, Kun Soo (*with* Johnson, Gerald W.; Skoug, David) Necessary and sufficient conditions for membership in the Banach algebra S for certain classes of functions. **90b:46093**
— *see also* **Ahn, Jae Moon; et al., 90k:46102**
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les capacités gaussiennes en dimension infinie. (English summary) [On Gaussian capacities in infinite dimensions] **90h:46078**
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Butzer, P. L. (*with* Kirschfink, H.; van Wickeren, E.) Weak convergence of probability measures in $C_b(C[0,1])$ equipped with rates. **90k:46053**
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— (*with* Storvick, D. A.) Change of scale formulas for Wiener integral. **90d:28017**
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Egorov, A. D. An approximate formula of a given degree of accuracy for a functional integral with respect to a measure generated by an arbitrary random process. (Russian. English summary) **90h:65024**
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Kharazishvili, A. B. Borel measures in the space $\mathbf{R}^\alpha$. **90g:28017**
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46G15 Lifting theory [see also 28A51]

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Pombo, Dinamérico P., Jr. Polynomials in topological vector spaces over valued fields. **90i:46128**
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— Projective limits of topological algebras. (Russian. English summary) **90m:46080**
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— (*with* El Azhari, M.; Oudadess, M.) Continuité des caractères dans les algèbres de Fréchet à bases. (English summary) [Continuity of characters in Fréchet algebras with bases] **90d:46072**
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— (*with* Oubbi, L.; Oudadess, M.) Algèbres A-convexes et problème de Michael. (English summary) [A-convex algebras and the Michael problem] **90m:46082**
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Dales, H. G. On norms on algebras. **90k:46110**
Dalla, Leoni (*with* Giotopoulos, S.; Katseli, Nelli) The socle and finite-dimensionality of a semiprime Banach algebra. **90f:46079**
Daoultzi-Malamou, Z. Strong spectral continuity in topological matrix algebras. (Italian summary) **90a:46114**
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Vaĭs, I. Algebras that are generated by two idempotents. (Russian) **90h:46083**
Van Daele, A. A new invariant for a finite covariant system. **90a:46119**
Vukman, J. Some remarks on derivations in Banach algebras and related results. **90a:46120**
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Antonevich, A. B. ★ Линейные функциональные уравнения. Операторный подход. (Russian) [Linear functional equations. The operator approach] **90f:39001**

Connes, Alain Entire cyclic cohomology of Banach algebras and characters of θ-summable Fredholm modules. **90c:46094**

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Hu, Chuanpu A generalization of K-theory for complex Banach algebras. **90b:46135**

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Maltese, George (*with* Wille, Regina) A characterization of homomorphisms in certain Banach involution algebras. **90a:46146**

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46H10 Ideals and subalgebras

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Böttcher, Albrecht (*with* Krupnik, N. Ya.; Silbermann, Bernd) A general look at local principles with special emphasis on the norm computation aspect. **90b:46102**

Frankiewicz, Ryszard *see* **Aniszczyk, Bohdan; et al., 90k:46113**

Krupnik, N. Ya. *see* **Böttcher, Albrecht; et al., 90b:46102**

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Scheffold, Egon Über Banachverbandsalgebren mit multiplikativer Zerlegungseigenschaft. [On Banach lattice algebras with multiplicative decomposition property] **90i:46090**

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Wong, Pak Ken On dual Banach algebras. **90g:46070**

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Aiena, Pietro Relatively regular ideals in semiprime Banach algebras. (Italian summary) **90f:46077**

46H15 Representations

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46H20 Structure, classification

Abel, Mati Abel (*with* Kokk, A.) Locally pseudoconvex Gel′fand-Mazur algebras. (Russian. English and Estonian summaries) **90b:46103**

Kokk, A. *see* **Abel, Mati Abel, 90b:46103**

Pym, John (*with* Ülger, Ali) On the Arens regularity of inductive limit algebras and related matters. **90e:46039**

Ülger, Ali *see* **Pym, John, 90e:46039**

Items with secondary classifications in 46H20

Akkar, Mohamed (*with* Oubbi, L.; Oudadess, M.) Algèbres à bases bornées. (English summary) [Algebras with bounded bases] **90c:46060**

Kluvánek, Igor Banach algebras occurring in spectral theory. **90i:47036**

Oubbi, L. *see* **Akkar, Mohamed; et al., 90c:46060**

Oudadess, M. *see* **Akkar, Mohamed; et al., 90c:46060**

Szmuksta-Zawadzka, Maria Algebras with topology induced by two locally bounded topologies. **90m:46084**

46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)

Borceux, F. (*with* Pelletier, Joan Wick) Descent theory for Banach modules. **90b:46104**

Curtis, Philip C., Jr. (*with* Loy, R. J.) The structure of amenable Banach algebras. **90k:46114**

Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. **90a:46122**

Kokk, A. Spaces of homomorphisms of topological module-algebras. (Russian. English summary) **90i:46091**

Lin, Chia-Shiang A-bilinear forms and generalised A-quadratic forms on unitary left A-modules. **90g:46071**

Loy, R. J. *see* **Curtis, Philip C., Jr., 90k:46114**

Pelletier, Joan Wick *see* **Borceux, F., 90b:46104**

Items with secondary classifications in 46H25

Abramovich, Yuri (*with* Arenson, E. L.; Kitover, A. K.) Operators in Banach $C(K)$-modules and their spectral properties. **90a:47091**

Arenson, E. L. *see* **Abramovich, Yuri; et al., 90a:47091**

Chang, Tsu Kung *see* **Lai, Han Ch'ing, 90f:43008**

Effros, Edward G. (*with* Ruan, Zhong-jin) On matricially normed spaces. **90a:46150**

El Yaacoubi, M. Modules de Banach p-adiques plats et injectifs. (English summary) [Flat and injective p-adic Banach modules] **90g:46107**

Galé, José E. Weak amenability of Banach algebras generated by some analytic semigroups. **90a:46144**

Gourdeau, Frédéric Amenability of Banach algebras. **90a:46125**

Hassani, Rachid Ameziane Espaces de familles sur un module. (English summary) [Spaces of families over a module] **90j:46012**

Kitover, A. K. *see* **Abramovich, Yuri; et al., 90a:47091**

Kleshchev, A. S. The homological dimension of Banach algebras of smooth functions is equal to infinity. **90f:46115**

Lai, Han Ch'ing (*with* Chang, Tsu Kung) Multipliers and translation invariant operators. **90f:43008**

Matos, M. C. On holomorphy in Banach spaces and absolute convergence of Fourier series. **90f:46075**

Ruan, Zhong-jin *see* **Effros, Edward G., 90a:46150**

Warner, Seth ★ Topological fields. **90i:12012**

46H30 Functional calculus [see also 47A60]

Akkar, Mohamed (*with* El Kinani, A.; Oudadess, M.) Calculus fonctionnels harmonique et analytique réel. (English summary) [Harmonic and real analytic functional calculi] **90a:46123**

El Kinani, A. *see* **Akkar, Mohamed; et al., 90a:46123**

Gheorghe, Amuraritei Propriétés spectrales des algèbres m-convexes. (Romanian summary) [Spectral properties of m-convex algebras] **90a:46124**

Oudadess, M. *see* **Akkar, Mohamed; et al., 90a:46123**

Items with secondary classifications in 46H30

Grobler, J. J. The zero-two law in Banach lattice algebras. **90e:46037**

Hatori, Osamu Range transformations on a Banach function algebra. II. **90i:46094**

Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI-algebras. (Russian) **90c:58018**

Kokk, A. A joint spectrum and extension of homomorphisms of topological algebras. (Russian. English summary) **90i:46087**

Kristóf, János Spectral theorem for normal elements of GW^*-algebras. **90f:46112**

Larotonda, Angel (*with* Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. **90a:46126**

Pryde, A. J. A noncommutative joint spectral theory. **90k:47008**

Zalduendo, Ignacio *see* **Larotonda, Angel, 90a:46126**

46H70 Jordan-Banach algebras, Banach-Lie algebras

Aupetit, Bernard (*with* Baribeau, Line) Sur le socle dans les algèbres de Jordan-Banach. [O the socle of Jordan-Banach algebras] **90m:46085**

Ayupov, Sh. A. (*with* Gol′dshteĭn, M. Sh.; Tadzhibaev, B. R.) Monotonically complete Jordan algebras with a p-additive norm. (Russian) **90d:46074**

Baribeau, Line *see* **Aupetit, Bernard, 90m:46085**

Gol′dshteĭn, M. Sh. *see* **Ayupov, Sh. A.; et al., 90d:46074**

Rao, S. Devadoss (*with* Rema, P. S.) Gleason-Kahane-Zalazko [Żelasko] theorem for Banach Jordan algebras and triple systems. **90e:46040**

Rema, P. S. *see* **Rao, S. Devadoss, 90e:46040**

Tadzhibaev, B. R. *see* **Ayupov, Sh. A.; et al., 90d:46074**

Items with secondary classifications in 46H70

Ayupov, Sh. A. (*with* Usmanov, Sh. M.) Diameters of state spaces of Jordan Banach algebras. **90g:46102**

Benslimane, M. (*with* Fernández López, Antonio; Kaïdi, El Amin Mokhtar) Caractérisation des algèbres de Jordan-Banach de capacité finie. [Characterization of finite-capacity Jordan-Banach algebra] **90e:17001**

Cabrera-Garcia, M. (*with* Martínez Moreno, Juan; Rodríguez-Palacios, Ángel) Nonassociative real H^*-algebras. **90a:46147**

El-Mallah, Mohamed Lamei Absolute valued algebras containing a central idempotent. **90j:17002**

Fernández López, Antonio *see* **Benslimane, M.; et al., 90e:17001**

Friedman, Yaakov (*with* Russo, Bernard) Affine structure of facially symmetric spaces. **90g:46099**

Kaïdi, El Amin Mokhtar *see* **Benslimane, M.; et al., 90e:17001**

Kosyak, A. V. Extension of unitary representations of inductive limits of finite-dimensiona Lie groups. **90d:22025**

Martínez Moreno, Juan *see* **Cabrera-Garcia, M.; et al., 90a:46147**

Rodríguez-Palacios, Ángel Mutations of C^*-algebras and quasiassociative JB*-algebras. **90g:46100**

— *see also* **Cabrera-Garcia, M.; et al., 90a:46147**

Russo, Bernard *see* **Friedman, Yaakov, 90g:46099**

Thompson, Robert C. Convergence proof for Goldberg's exponential series. **90i:22011**

Usmanov, Sh. M. *see* **Ayupov, Sh. A., 90g:46102**

Zhang, Yong Ping On a conjecture of Saitō. (Chinese. English summary) **90m:46120**

46H99 None of the above, but in this section

Crabb, M. J. (*with* McGregor, C. M.) Polynomials in a Hermitian element. **90b:46105**

van Eldik, Peter *see* **Venter, Lucas; et al., 90h:46084**

Grobler, J. J. *see* **Venter, Lucas; et al., 90h:46084**

Lorentz, Kai On the structure of the similarity orbits of Jordan operators as analytic homogeneous manifolds. **90i:46092**

McGregor, C. M. *see* **Crabb, M. J., 90b:46105**

Oudadess, M. Inductive limits of normed algebras and m-convex structures. **90i:46093**

Venter, Lucas (*with* Grobler, J. J.; van Eldik, Peter) The peripheral spectrum in Banach lattice algebras. **90h:46084**

Items with secondary classifications in 46H99

Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebras. **90m:08001**
Băbescu, Gh. *see* **Reghiş, M., 90g:47077** *and* **90g:47078**
Basly, M. (*with* Triki, A.) f-algebras in which order ideals are ring ideals. **90e:46008**
Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) On algebras of vector-valued measures. (Spanish. English summary) **90k:46122**
Burtman, M. I. *see* **Feĭzullaev, R. B., 90m:08005**
Candeal, Juan C. *see* **Blasco De La Cruz, Oscar, 90k:46122**
Choy, Stephen T. L. Extreme operators on function spaces. **90e:47020**
Christ, Michael Inversion in some algebras of singular integral operators. **90j:42041**
Draux, André Convergence of Padé approximants in a noncommutative algebra. **90f:41014**
Feĭzullaev, R. B. (*with* Burtman, M. I.) Densely embedded $\hat{v}$-ideals of the Menger algebra of multiplace linear functions. (Russian. English and Azerbaijani summaries) **90m:08005**
Gómez Gil, Javier (*with* Llavona, J. G.) A Michael-type theorem for subalgebras of continuous functions on a Banach space. (Spanish) **90h:46089**
Grobler, J. J. On the functional calculus in Archimedean Riesz spaces with applications to approximation theorems. **90b:46013**
Kalra, Savita (*with* Parnami, J. C.; Vasudeva, H. L.) A sine equation in Banach algebras. **90e:39016**
Kozachenko, M. Integral representation of multiplicative systems in a Banach ring. (Russian) **90f:46076**
Lapidus, Michel L. Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus and generalized functional integral] **90m:46124**
Llavona, J. G. *see* **Gómez Gil, Javier, 90h:46089**
Parnami, J. C. *see* **Kalra, Savita; et al., 90e:39016**
Páter, Z. Topological algebras of functions. **90m:46091**
Reghiş, M. (*with* Băbescu, Gh.) Cosine and sine functions valued in Banach algebras. I. Growth orders. Laplace transforms and Riesz-Dunford type representations. **90g:47077**
— (*with* Băbescu, Gh.) Cosine and sine functions valued in Banach algebras. II. Some spectral properties. **90g:47078**
Sharipov, F. *see* **Zhuraev, Yu. Ĭ., 90g:58129**
Triki, A. *see* **Basly, M., 90e:46008**
Vasudeva, H. L. *see* **Kalra, Savita; et al., 90e:39016**
Willis, G. A. Ultraprime group algebras. **90m:43011**
Zhuraev, Yu. Ĭ. (*with* Sharipov, F.) On the index of a Fredholm operator in a Hilbert C-module. (Russian) **90g:58129**

46Jxx Commutative Banach algebras and commutative topological algebras

Items with secondary classifications in 46Jxx

(Becker, Richard Edouard) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Dales, H. G. (*with* Woodin, W. H.) ★ An introduction to independence for analysts. **90d:03101**
(Gebel, M.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Kunze, Wolfgang) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Mai, B.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Naĭmark, M. A. ★ Normierte Algebren. (German) [Normed algebras] **90m:46004a**
— ★ Normierte Algebren. (German) [Normed algebras] **90m:46004b**
(Tesch, G.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Woodin, W. H. *see* **Dales, H. G., 90d:03101**

46J05 General theory

Bade, W. G. (*with* Dales, H. G.) Discontinuous derivations from algebras of power series. **90j:46048**
Bhatt, S. J. A norm-free characterization of uniform algebras. **90b:46106**
Boo, Deok-Hoon *see* **Jun, Kil-Woung; et al., 90f:46082** *and* **90f:46083**
Dales, H. G. *see* **Bade, W. G., 90j:46048**
Emam, Magdy M. On local-belonging sets in Banach algebras. (Arabic summary) **90h:46085**
Gourdeau, Frédéric Amenability of Banach algebras. **90a:46125**
Hatori, Osamu *see* **Takahasi, Sin-ei, 90m:46086**
Jun, Kil-Woung (*with* Kim, Kil-Tae; Boo, Deok-Hoon) Derivations and homomorphisms on Banach algebras. **90f:46082**
— (*with* Kim, Kil-Tae; Boo, Deok-Hoon) Derivations and homomorphisms on Banach algebras. I. **90f:46083**
Kamowitz, Herbert (*with* Scheinberg, Stephen; Wortman, Dennis) Compact endomorphisms of Banach algebras. II. **90b:46107**
Kim, Kil-Tae *see* **Jun, Kil-Woung; et al., 90f:46082** *and* **90f:46083**
Larotonda, Angel (*with* Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. **90a:46126**
Mokhtari, A. Distance entre éléments d'un semi-groupe continu dans une algèbre de Banach. [Distance between the elements of a continuous semigroup in a Banach algebra] **90g:46072**
Narmaniya, V. G. A remark on derivations. (Russian. English and Georgian summaries) **90a:46127**
Romanelli, Silvia Convergence of nets of positive linear forms on commutative Banach algebras. **90e:46041**
Scheinberg, Stephen *see* **Kamowitz, Herbert; et al., 90b:46107**
Takahasi, Sin-ei (*with* Hatori, Osamu) Commutative Banach algebras which satisfy a Bochner-Schoenberg-Eberlein type theorem. **90m:46086**
Thomas, Marc P. The image of a derivation is contained in the radical. **90d:46075**
Wortman, Dennis *see* **Kamowitz, Herbert; et al., 90b:46107**
Zalduendo, Ignacio *see* **Larotonda, Angel, 90a:46126**

Items with secondary classifications in 46J05

Akkar, Mohamed (*with* El Kinani, A.; Oudadess, M.) Calculus fonctionnels harmonique et analytique réel. (English summary) [Harmonic and real analytic functional calculi] **90a:46123**
— (*with* El Azhari, M.; Oudadess, M.) Continuité des caractères dans les algèbres de Fréchet à bases. (English summary) [Continuity of characters in Fréchet algebras with bases] **90d:46072**
Beckhoff, Ferdinand A counterexample in Korovkin theory. **90k:46154**
Curto, Raúl E. Applications of several complex variables to multiparameter spectral theory. **90d:47007**
El Azhari, M. *see* **Akkar, Mohamed; et al., 90d:46072**
El Kinani, A. *see* **Akkar, Mohamed; et al., 90a:46123**
Gheorghe, Amuraritei Propriétés spectrales des algèbres m-convexes. (Romanian summary) [Spectral properties of m-convex algebras] **90a:46124**
Guan, Bo Uniqueness of topology and continuity of systems of derivations on locally convex F-algebras. (Chinese) **90g:46068**
Jiang, Xin Hui Remarks on automatic continuity of derivations and module derivations. **90d:46073**
Johnson, B. E. Perturbations of multiplication and homomorphisms. **90c:46062**
Jun, Kil-Woung *see* **Lee, Young-Whan, 90i:46100**
Laursen, K. B. Intertwining with isometries. **90i:47038**
Lee, Young-Whan (*with* Jun, Kil-Woung) Derivations on commutative Banach algebras. **90i:46100**
Oudadess, M. *see* **Akkar, Mohamed; et al., 90a:46123** *and* **90d:46072**
Rao, N. Venkateswara Closed ideals of finite codimension in regular selfadjoint Banach algebras. **90g:46077**
Vukman, J. Some remarks on derivations in Banach algebras and related results. **90a:46120**

46J10 Banach algebras of continuous functions, function algebras

Aron, Richard M. (*with* Llavona, J. G.) Composition of weakly uniformly continuous functions. **90f:46084**
Arundhathi, S. *see* **Kulkarni, S. H., 90a:46129**
Bade, W. G. (*with* Dales, H. G.) Continuity of derivations from radical convolution algebras. **90k:46115**
Blümlinger, M. (*with* Tichy, R. F.) Topological algebras of functions of bounded variation. I. **90k:46116**
— Topological algebras of functions of bounded variation. II. **90k:46117**
Candeal, Juan C. (*with* Galé, José E.) On the existence of analytic semigroups bounded on the half-disc in some Banach algebras. **90m:46087**
Dales, H. G. *see* **Bade, W. G., 90k:46115**
Ellis, A. J. Algebraic structure in complex function spaces. **90b:46108**
Galé, José E. *see* **Candeal, Juan C., 90m:46087**
Gamelin, T. W. On analytic disks in the spectrum of a uniform algebra. **90d:46076**
Garling, D. J. H. On the dual of a proper uniform algebra. **90g:46073**
Goldmann, H. An analytic algebra without analytic structure in the spectrum. **90e:46042**
Gómez Gil, Javier (*with* Llavona, J. G.) Multiplicative functionals on function algebras. **90h:46086**
Gorkin, Pamela Functions not vanishing on trivial Gleason parts of Douglas algebras. **90a:46128**
Gruenberg, Verónica A step beyond the Szegő situation. **90f:46085**
Hatori, Osamu Range transformations on a Banach function algebra. II. **90i:46094**
Jarosz, K. Perturbations of function algebras. **90b:46109**
Kishi, Kazuo (*with* Nakazi, Takahiko) Some typical ideal in a uniform algebra. **90i:46095**
Kulkarni, S. H. (*with* Arundhathi, S.) Choquet boundary for real function algebras. **90a:46129**
— (*with* Srinivasan, N.) A note on a theorem of Gorin. **90a:46130**
Lai, Chun Hui On a problem of Glicksberg concerning uniform algebras. (Chinese) **90a:46131**
— Interpolation sets of function algebras and of weak function algebras. (Chinese. English summary) **90i:46096**
Llavona, J. G. *see* **Aron, Richard M., 90f:46084** *and* **Gómez Gil, Javier, 90h:46086**
Mortini, Raymond (*with* von Renteln, Michael) Strong extreme points and ideals in uniform algebras. **90g:46074**
Nakazi, Takahiko A spectral dilation of some non-Dirichlet algebra. **90k:46118**
— *see also* **Kishi, Kazuo, 90i:46095**
Nessel, R. J. (*with* van Wickeren, E.) Local multiplier criteria in Banach spaces. **90b:46110**
Ouzomgi, S. I. Point derivations and ideals in Banach algebras of differentiable functions. **90i:46097**
Pannenberg, Michael Topics in qualitative Korovkin approximation. **90c:46064**
Parvatham, R. Function theory on Banach algebras. **90m:46088**
Pennings, Tim (*with* Peters, Justin) Dynamical systems from function algebras. **90f:46086**
Peters, Justin *see* **Pennings, Tim, 90f:46086**
von Renteln, Michael *see* **Mortini, Raymond, 90g:46074**
Srinivasan, N. *see* **Kulkarni, S. H., 90a:46130**
Stankov, Dimcho K. An algebra of functions on the boundary of the generalized unit disk. (Russian) **90m:46089**
Tichy, R. F. *see* **Blümlinger, M., 90k:46116**
Wada, Junzo *see* **Yamaguchi, Shinya, 90a:46132**
van Wickeren, E. *see* **Nessel, R. J., 90b:46110**
Yamaguchi, Shinya (*with* Wada, Junzo) On peak sets for certain function spaces. **90a:46132**

Items with secondary classifications in 46J10

Arzumanyan, V. A. (*with* Grigoryan, Souren Arshakovich) The boundaries of uniform algebras of operator fields. **90k:46127**

Bishop, Christopher J. Constructing continuous functions holomorphic off a curve. **90a:46134**

Boivin, André T-invariant algebras on Riemann surfaces. II. **90k:46119**

Bukhtin, M. A. The Russo-Dye theorem in uniform algebras. (Russian) (*see* **90m:00040**)

Chevreau, B. (*with* Galé, José E.) Banach algebra techniques and extensions of operator-valued representations. **90j:47014**

Coen, Salvatore A remark on characters and point evaluations. (Italian summary) **90c:32016**

Galé, José E. *see* **Chevreau, B., 90j:47014**

Gamelin, T. W. (*with* Khavinson, Dmitry) The isoperimetric inequality and rational approximation. **90d:30108**

Garyga, Hanna (*with* Hulanicki, Andrzej) Growth of the norms of products of randomly dilated functions from $A(T)$. **90b:42023**

Grigoryan, Souren Arshakovich *see* **Arzumanyan, V. A., 90k:46127**

Hagen, Roland (*with* Silbermann, Bernd) A Banach algebra approach to the stability of projection methods for singular integral equations. **90k:47105**

Hatori, Osamu *see* **Takahasi, Sin-ei, 90m:46086**

Hulanicki, Andrzej *see* **Garyga, Hanna, 90b:42023**

Ider, Mostéfa *see* **Siddiqi, Jamil A., 90h:26036**

Khavinson, Dmitry *see* **Gamelin, T. W., 90d:30108**

Mankiewicz, P. A superreflexive Banach space X with $L(X)$ admitting a homomorphism onto the Banach algebra $C(\beta\mathbf{N})$. **90e:46014**

Nakazi, Takahiko Complete spectral area estimates and self-commutators. **90a:47064**

O'Farrell, A. G. (*with* Preskenis, K. J.) Uniform approximation by polynomials in two functions. **90k:30077**

Ohno, Shûichi Restricted invertible Toeplitz operators. **90k:47056**

Preskenis, K. J. *see* **O'Farrell, A. G., 90k:30077**

Siddiqi, Jamil A. (*with* Ider, Mostéfa) Characterization of inverse-closed Beurling classes. **90h:26036**

Silbermann, Bernd *see* **Hagen, Roland, 90k:47105**

Sternfeld, Yaki (*with* Weit, Yitzhak) An approximation theorem for vector valued functions. **90k:46089**

Suciu, Nicolae On p-absolutely summing operators defined on function algebras. (Not in MR)

Takahasi, Sin-ei (*with* Hatori, Osamu) Commutative Banach algebras which satisfy a Bochner-Schoenberg-Eberlein type theorem. **90m:46086**

Trenholme, Alice R. Maximal abelian subalgebras of function algebras associated with free products. **90c:46073**

Walter, Martin E. On a new method for defining the norm of Fourier-Stieltjes algebras. **90e:43004**

Weit, Yitzhak *see* **Sternfeld, Yaki, 90k:46089**

46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [see also 30D55, 30H05, 32A35, 32E25, 42B30]

Axler, Sheldon (*with* Gorkin, Pamela) Algebras on the disk and doubly commuting multiplication operators. **90a:46133**

— (*with* Gorkin, Pamela) Sequences in the maximal ideal space of H^∞. **90h:46087**

Bishop, Christopher J. Constructing continuous functions holomorphic off a curve. **90a:46134**

Boivin, André T-invariant algebras on Riemann surfaces. II. **90k:46119**

Carne, T. K. (*with* Cole, B.; Gamelin, T. W.) A uniform algebra of analytic functions on a Banach space. **90i:46098**

Clark, Douglas N. Restrictions of H^p functions in the polydisk. **90a:46135**

Cole, B. *see* **Carne, T. K.; et al., 90i:46098**

Eoff, C. M. Fréchet envelopes of certain algebras of analytic functions. **90g:46075**

Gamelin, T. W. Weak-star closed algebra containing $R(K)$. **90d:46077**

— *see also* **Carne, T. K.; et al., 90i:46098**

Gorkin, Pamela Gleason parts and COP. **90e:46043**

— *see also* **Axler, Sheldon, 90a:46133** *and* **90h:46087**

Gullory, Carroll J. Maximal subalgebra of Douglas algebra. **90a:46136**

Hedenmalm, Håkan On the f- and K-properties of certain function spaces. **90g:46076**

— Closed ideals in the ball algebra. **90k:46120**

Ivanov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) **90i:46099**

Kolaski, Clinton J. Isometries of some smooth normed spaces of analytic functions. **90e:46044**

Mochizuki, Nozomu Algebras of holomorphic functions between H^p and N_*. **90a:46137**

Mortini, Raymond (*with* von Renteln, Michael) Ideals in the Wiener algebra W^+. **90a:46138**

— Corona theorems for subalgebras of H^∞. **90h:46088**

Nakazi, Takahiko Certain invariant subspaces of H^2 and L^2 on a bidisc. **90d:46078**

— Weighted norm inequalities and uniform algebras. **90d:46079**

Nandakumar, N. R. An application of Nienhuys-Thiemann's theorem to ring derivations on $H(G)$. **90a:46139**

Nicolau, Artur The corona property for bounded analytic functions in some Besov spaces. **90m:46090**

Petrosyan, A. I. Peak and interpolation sets for algebras of smooth functions in the polydisc and in the future tube. **90d:46080**

Petunin, Yu. I. (*with* Savkin, V. I.) Convergence that is generated by analytic functionals, and an isomorphism of algebras of analytic functions. **90c:46065**

von Renteln, Michael *see* **Mortini, Raymond, 90a:46138**

Rochberg, Richard Deformation theory for algebras of analytic functions. **90b:46111**

Rupp, Rudolf Stable rank of subalgebras of the disc algebra. **90f:46087**

Savkin, V. I. *see* **Petunin, Yu. I., 90c:46065**

Stankov, Dimcho K. Bounded hyper-analytic functions and the Shilov boundary. (Russian) **90j:46049**

Timoney, Richard M. The Dunford-Pettis property for certain planar uniform algebras. **90a:46140**

Tolokonnikov, V. A. Algebras of bounded functions with a smooth co-analytic part. **90k:46121**

Wang, Derming (*with* Watson, Saleem) A characterization of the algebra of holomorphic functions on a simply connected domain. **90a:46141**

Wang, Jian A corona theorem for countably many functions on a class of infinitely connected domains. **90j:46050**

Watson, Saleem *see* **Wang, Derming, 90a:46141**

Wolter, Jürgen Complementation of principal ideals in weighted (FN)-algebras of entire functions. **90d:46081**

Items with secondary classifications in 46J15

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46J20 Ideals, maximal ideals, boundaries

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Hedenmalm, Håkan Superalgebras and closed ideals. **90d:46082**
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Ivanov, O. V. Generalized analytic functions and the two-sheeted corona theorem. (Russian. English summary) **90i:46099**
Kajetanowicz, Przemysław A general approach to the notion of Silov boundary. **90k:46003**
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Wang, Jian The corona theorem with infinite data on a class of infinitely connected domains. (Chinese) **90c:30060**

46J25 Representations

Items with secondary classifications in 46J25
Nassopoulos, George F. Duality and functional representations of certain complete algebras. (Greek summary) **90b:46133**
Scheffold, Egon Über FF-Banachverbandsalgebren $C(K)$ und ihren assoziierten Operator. (English summary) [On FF-Banach lattice algebras $C(K)$ and their associated operator] **90f:46046**

46J30 Subalgebras

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Gamelin, T. W. Weak-star closed algebra containing $R(K)$. **90d:46077**
Lai, Chun Hui On a problem of Glicksberg concerning uniform algebras. (Chinese) **90a:46131**

46J35 Structure, classification

Galé, José E. Weak amenability of Banach algebras generated by some analytic semigroups. **90a:46144**

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Hadwin, Don (*with* Hoover, T. B.) Operator algebras and the conjugacy of transformations. II. **90a:46175**
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Kleshchev, A. S. The homological dimension of Banach algebras of smooth functions is equal to infinity. **90f:46115**
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46J99 None of the above, but in this section

Blasco De La Cruz, Oscar (*with* Candeal, Juan C.) On algebras of vector-valued measures. (Spanish. English summary) **90k:46122**
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Gómez Gil, Javier (*with* Llavona, J. G.) A Michael-type theorem for subalgebras of continuous functions on a Banach space. (Spanish) **90h:46089**
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Candeal, Juan C. *see* **Blasco De La Cruz, Oscar, 90b:43001**
Choy, Stephen T. L. Positive operators and algebras of dominated measures. **90g:47055**
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Itskovich, I. A. The von Neumann model in ordered Banach algebras. (Russian) **90b:90039**
Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. **90m:46042**
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Zhang, You Guang *see* **Shen, Xie Chang; et al., 90i:30053**

46Kxx Rings and algebras with an involution

Items with secondary classifications in 46Kxx
(Becker, Richard Edouard) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Gebel, M.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Kunze, Wolfgang) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Mai, B.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Naĭmark, M. A. ★ Normierte Algebren. (German) [Normed algebras] **90m:46004a**
— ★ Normierte Algebren. (German) [Normed algebras] **90m:46004b**
(Tesch, G.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**

46K05 General theory

Alimov, A. A. Order properties of GB^*-algebras. (Russian) **90m:46092**
Bohnke, G. Besov Sobolev algebras of symbols. (*see* **90g:42062**)
Fragoulopoulou, M. Symmetric topological *-algebras. **90a:46145**
Hennings, M. A. Topologies on BP^*-algebras. **90i:46101**
— Kasparov's technical lemma for b^*-algebras. **90c:46066**
Inoue, Atsushi An unbounded generalization of Hilbert algebras. **90d:46083**
Kristóf, János Commutative GW^*-algebras. **90c:46067**
Magyar, Zoltán On the representation of the dual of a real C^*-algebra. **90f:46089**
Maltese, George (*with* Wille, Regina) A characterization of homomorphisms in certain Banach involution algebras. **90a:46146**
Render, Hermann A characterization of C^*-algebras via positive operators. **90e:46045**
— An order-theoretic approach to involutive algebras. **90c:46068**
Wille, Regina *see* **Maltese, George, 90a:46146**

Items with secondary classifications in 46K05
Akkar, Mohamed (*with* El Kinani, A.; Oudadess, M.) Calculus fonctionnels harmonique et analytique réel. (English summary) [Harmonic and real analytic functional calculi] **90a:46123**
El Kinani, A. *see* **Akkar, Mohamed; et al., 90a:46123**
Itoh, Takashi The maximal C^*-norm and the Haagerup norm. **90m:46095**
— The Haagerup type cross norm on C^*-algebras. **90m:46096**
Mundici, Daniele The C^*-algebras of three-valued logic. **90j:03039**
Oudadess, M. *see* **Akkar, Mohamed; et al., 90a:46123**

46K10 Representations

Inoue, Atsushi Selfadjointness of the $*$-representation generated by the sum of two positive linear functionals. **90b:46112**
Kasparek, Andreas Extensions of $*$-representations. **90k:46124**
Kokk, A. Functional representation of topological $*$-algebras. (Russian. English summary) **90i:46102**
Ostrovskiĭ, V. L. (*with* Samoĭlenko, Yu. S.) Representation of $*$-algebras with two generators and polynomial relations. (Russian. English summary) **90k:46125**
Samoĭlenko, Yu. S. *see* **Ostrovskiĭ, V. L., 90k:46125**

Items with secondary classifications in 46K10

Alcalde, Carlos (*with* Sternheimer, D.) Analytic vectors, anomalies and star representations. **90h:22012**
Anderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**
Gebuhrer, Olivier (*with* Kumar, Ajay^1) The Wiener property for a class of discrete hypergroups. **90i:43004**
Kasparek, Andreas *see* **Van Daele, A., 90f:47063**
Kumar, Ajay^1 *see* **Gebuhrer, Olivier, 90i:43004**
Nagisa, Masaru (*with* Song, Gu) Inheritance of the solvability of the similarity problem within a C^*-algebra and its C^*-subalgebras. **90f:46091**
Nassopoulos, George F. Duality and functional representations of certain complete algebras. (Greek summary) **90b:46133**
Paschke, William *see* **Anderson, Joel, 90k:46126**
Song, Gu *see* **Nagisa, Masaru, 90f:46091**
Sternheimer, D. *see* **Alcalde, Carlos, 90h:22012**
Van Daele, A. (*with* Kasparek, Andreas) On the strong unbounded commutant of an $\mathcal{O}^*$-algebra. **90f:47063**

46K15 Hilbert algebras

Cabrera-Garcia, M. (*with* Martínez Moreno, Juan; Rodríguez-Palacios, Ángel) Nonassociative real H^*-algebras. **90a:46147**
Martínez Moreno, Juan *see* **Cabrera-Garcia, M.; et al., 90a:46147**
Rodríguez-Palacios, Ángel *see* **Cabrera-Garcia, M.; et al., 90a:46147**

46K99 None of the above, but in this section

Cabrera-Garcia, M. (*with* Martínez Moreno, Juan; Rodríguez-Palacios, Ángel) A note on real H^*-algebras. **90e:46046**
Martínez Moreno, Juan *see* **Cabrera-Garcia, M.; et al., 90e:46046**
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Chevalier, Georges Orthomodular spaces and Baer $*$-rings. **90j:06017**
Chilin, V. I. Baire ordered $*$-algebroids. (Russian) **90d:46091**
Cuenca Mira, José Antonio (*with* García Martín, Amable; Martín González, Cándido) Structure theory for L^*-algebras. **90k:46152**
García Martín, Amable *see* **Cuenca Mira, José Antonio; et al., 90k:46152**
Haag, Rudolf Quantum physics and gravitation. **90i:81055**
Kristóf, János Spectral theorem for normal elements of GW^*-algebras. **90f:46112**
Martín González, Cándido *see* **Cuenca Mira, José Antonio; et al., 90k:46152**
Nakagami, Yoshiomi Spectral analysis in Kreĭn spaces. **90a:47089**
Romanelli, Silvia Convergence of nets of positive linear forms on commutative Banach algebras. **90e:46041**
Thill, Marco Exponentially bounded indefinite functions. **90m:43020**

46Lxx C^*-algebras and von Neumann (W^*-) algebras [see also 22D25]

Items with secondary classifications in 46Lxx

(Becker, Richard Edouard) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Doran, R. S. *see* **Fell, J. M. G., 90c:46001** *and* **90c:46002**
Fell, J. M. G. (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 1. **90c:46001**
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(Gebel, M.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Kastler, Daniel Introduction to Alain Connes' noncommutative differential geometry. **90m:58014**
(Kunze, Wolfgang) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
(Mai, B.) *see* **Naĭmark, M. A., 90m:46004a** *and* **90m:46004b**
Naĭmark, M. A. ★ Normierte Algebren. (German) [Normed algebras] **90m:46004a**
— ★ Normierte Algebren. (German) [Normed algebras] **90m:46004b**
Paterson, Alan L. T. ★ Amenability. **90e:43001**
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Analyticity in operator algebras ★ Sakuyo sokan no kaisekisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] **90b:46001**
Symposium:
  Analyticity in Operator Algebras ★ Sakuyo sokan no kaisekisei ni tsuite no kenkyu. (Japanese) [On analyticity in operator algebras] **90b:46001**
  Theory of Operator Algebras and Index Theory ★ Sayosokan ron to shisū riron. (Japanese) [Theory of operator algebras and index theory] **90d:46005**
Theory of operator algebras and index theory ★ Sayosokan ron to shisū riron. (Japanese) [Theory of operator algebras and index theory] **90d:46005**

46L05 C^*-algebras, general theory

Anderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**
Arzumanyan, V. A. (*with* Grigoryan, Souren Arshakovich) The boundaries of uniform algebras of operator fields. **90k:46127**
Blackadar, Bruce Comparison theory for simple C^*-algebras. **90g:46078**
Blecher, David P. Commutativity in operator algebras. **90k:46128**
Brown, Lawrence G. Interpolation for multipliers. **90h:46090**
— Semicontinuity and multipliers of C^*-algebras. **90a:46148**
Bukhtin, M. A. The Russo-Dye theorem in uniform algebras. (Russian) (*see* **90m:00040**)
Christensen, Erik^1 Close operator algebras. **90a:46149**
Corach, Gustavo (*with* Porta, Horacio; Recht, Lázaro) Two C^*-algebra inequalities. **90h:46091**
Dădărlat, Marius (*with* Pasnicu, Cornel) Inductive limits of $C(X)$-modules and continuo fields of AF-algebras. **90g:46079**
Effros, Edward G. (*with* Ruan, Zhong-jin) On matricially normed spaces. **90a:46150**
— Why the circle is connected: an introduction to quantized topology. **90d:46084**
Elliott, George A. (*with* Handelman, David E.) Addition of C^*-algebra extensions. **90e:46047**
Enomoto, Masatoshi Geometries of the projective spaces over C^*-algebras. **90g:46080**
Frank, Michael Elements of Tomita-Takesaki theory for embeddable AW^*-algebras. **90m:46093**
Green, William L. (*with* Morley, T. D.) Dini's theorem and electrical networks. **90m:460**
Grigoryan, Souren Arshakovich *see* **Arzumanyan, V. A., 90k:46127**
Hadwin, Don A Bishop-Stone-Weierstrass theorem for C^*-algebras. **90f:46090**
Handelman, David E. *see* **Elliott, George A., 90e:46047**
Huruya, Tadasi (*with* Kye, Seung-Hyeok) Fubini products of C^*-algebras and application to C^*-exactness. **90c:46069**
Iochum, Bruno (*with* Loupias, Guy; Rodríguez-Palacios, Ángel) Commutativity of C^*-algebras and associativity of JB^*-algebras. **90d:46085**
Itoh, Takashi The maximal C^*-norm and the Haagerup norm. **90m:46095**
— The Haagerup type cross norm on C^*-algebras. **90m:46096**
Kaplan, Alexander On paving sequences in C^*-algebras. **90m:46097**
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Kodaka, Kazunori On automorphisms of irrational rotation algebras. **90g:46081**
Kye, Seung-Hyeok Fubini products of liminal C^*-algebras with Hausdorff spectra. **90a:46152**
— *see also* **Huruya, Tadasi, 90c:46069**
Loupias, Guy *see* **Iochum, Bruno; et al., 90d:46085**
Mathieu, Martin Elementary operators on prime C^*-algebras. II. **90h:46093**
— Compact and weakly compact multiplications on C^*-algebras. **90k:46129**
— Elementary operators on prime C^*-algebras. I. **90h:46092**
— Weakly compact homomorphisms from C^*-algebras are of finite rank. **90k:46130**
McKennon, Kelly Ascoli's theorem and the pure states of a C^*-algebra. **90e:46048**
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Muhly, Paul S. (*with* Solel, Baruch) Subalgebras of groupoid C^*-algebras. **90m:46098**
Murphy, G. J. Diagonality in C^*-algebras. **90c:46070**
— Sums of Laurent and bilateral Hankel operators. **90c:46071**
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Pasnicu, Cornel Study of some special classes of operator algebras. (Romanian. English summary) **90a:46153**
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Pedersen, Gert K. Three quavers on unitary elements in C^*-algebras. **90f:46092**
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Robertson, A. G. (*with* Smith, R. R.) Liftings and extensions of maps on C^*-algebras. **90g:46082**
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Rørdam, Mikael Advances in the theory of unitary rank and regular approximation. **90c:46072**
— *see also* **Putnam, Ian F., 90m:46099**
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Smith, R. R. Completely bounded multilinear maps and Grothendieck's inequality. **90m:46100**
— *see also* **Robertson, A. G., 90g:46082** *and* **Paulsen, Vern; et al., 90j:46051**
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— *see also* **Nagisa, Masaru, 90f:46091**
Spielberg, John S. Embedding C^*-algebra extensions into AF algebras. **90a:46154**
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Szymański, Wojciech Group C^*-algebras as algebras of "continuous functions" with noncommuting variables. **90b:46113**
Tanahashi, Kôtarô (*with* Tomiyama, Jun) Indecomposable positive maps in matrix algebras. **90a:46156**
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— Stable isomorphism of hereditary C^*-subalgebras and stable equivalence of open projections. **90c:46074**
— A property of purely infinite simple C^*-algebras. **90k:46134**

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Berdikulov, M. A. (*with* Yadgorov, N. D.) Spaces with an order unit of type I. (Russian) **90d:46012**
Boca, Florin (*with* Niţică, Viorel) Combinatorial properties of groups and simple C^*-algebras with a unique trace. **90i:22007**
Boo, Deok-Hoon *see* **Jun, Kil-Woung; et al., 90f:46082** *and* **90f:46083**
Borceux, F. (*with* Van den Bossche, G.) An essay on noncommutative topology. **90h:46106**
Davidson, Kenneth R. ★ Nest algebras. **90f:47062**
Doplicher, Sergio (*with* Roberts, John E.) Endomorphisms of C^*-algebras, cross products and duality for compact groups. **90j:46058**
Getzler, Ezra (*with* Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. **90g:58124**
Handelman, David E. (*with* Yin, Hong Sheng) Toeplitz extensions and automorphisms affiliated with linear characters of groups. **90a:46176**
Howe, Roger E. (*with* Rosenberg, Jonathan) The unitary representation theory of GL(n) of an infinite discrete field. **90m:22018**
Jones, John D. S. *see* **Getzler, Ezra; et al., 90g:58124**
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Kaniuth, Eberhard (*with* Taylor, Keith F.) Projections in C^*-algebras of nilpotent groups. **90i:22008**
— On the conjugation representation of a locally compact group. **90k:22003**
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Kristóf, János Commutative GW^*-algebras. **90c:46067**
Magyar, Zoltán On the representation of the dual of a real C^*-algebra. **90f:46089**
Moore, Robert Laurens (*with* Trent, T. T.) Isometries of nest algebras. **90k:47096**
Mundici, Daniele The C^*-algebras of three-valued logic. **90j:03039**
Murphy, Gerald J. Simple C^*-algebras and subgroups of **Q**. **90g:46104**
Nagy, Gabriel Some remarks on lifting invertible elements from quotient C^*-algebras. **90m:46123**
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Pannenberg, Michael Topics in qualitative Korovkin approximation. **90c:46064**
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Petz, Dénes (*with* Zemánek, Jaroslav) Characterizations of the trace. **90c:46075**
Powers, Robert T. (*with* Robinson, Derek W.) An index for continuous semigroups of $*$-endomorphisms of $\mathfrak{B}(\mathfrak{H})$. **90f:46107**
Price, Geoffrey Endomorphisms of certain operator algebras. **90h:46104**
Putnam, Ian F. Strong Morita equivalence for the Denjoy C^*-algebras. **90f:46108**
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Shaio, Jack Approximate equivalence for representations of C^*-algebras and C^*-dynamical systems. **90i:46120**
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Skandalis, Georges Une notion de nucléarité en K-théorie (d'après J. Cuntz). (English summary) [A notion of nuclearity in K-theory (following J. Cuntz)] **90b:46131**
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Wang, Xiaolu Noncommutative "CW-complexes". **90a:46188**
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Yin, Hong Sheng Two C^*-algebras related to the discrete Heisenberg group. **90d:46099**
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Christensen, Erik[1] (*with* Sinclair, Allan M.) Completely bounded isomorphisms of injective von Neumann algebras. **90k:46135**
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Edwards, C. M. (*with* Rüttimann, Gottfried T.) Inner ideals in W^*-algebras. **90h:46095**
Exel, Ruy Maximal subdiagonal algebras. **90b:46114**
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— (*with* Nakamura, Yoshihiro) Distance between unitary orbits in von Neumann algebras. **90i:46105**
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Kadison, R. V. The Weyl theorem and block decompositions. **90h:46096**
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— Reduction theory on the relative entropy. II. **90m:46102**
Korol′, A. M. (*with* Chilin, V. I.) Measurable operators in a Boolean-valued model of set theory. (Russian) **90h:46097**
Larson, David R. (*with* Solel, Baruch) Bimodules of nest subalgebras of von Neumann algebras. **90a:46159**
May, G. (*with* Neuhardt, E.; Wittstock, G.) The space of completely bounded module homomorphisms. **90h:46098**
Mingo, J. A. The correspondence associated to an inner completely positive map. **90g:46083**
Muhly, Paul S. (*with* Solel, Baruch) Representations of chordal subalgebras of von Neumann algebras. **90g:46084**
— (*with* Saito, Kichi-Suke; Solel, Baruch) Coordinates for triangular operator algebras. II. **90i:46106**
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Percy, Jacquelyn Infinite Chevalley products of von Neumann algebras. **90i:46107**
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Robertson, A. G. Some abelian Banach algebras of operators on the matricial II_1 factor. **90k:46136**
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Solel, Baruch Coordinates for analytic operator algebras. **90a:46161**
— *see also* **Larson, David R., 90a:46159; Muhly, Paul S., 90g:46084** *and* **90i:46106**
Strõh, Anton (*with* Swart, Johan) Measures of noncompactness of operators in von Neumann algebras. **90d:46088**
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Baillet, Michel (*with* Denizeau, Yves; Havet, Jean-François) Indice d'une espérance conditionnelle. [Index of a conditional expectation] **90e:46050**
Cecchini, Carlo (*with* Petz, Dénes) State extensions and a Radon-Nikodým theorem for conditional expectations on von Neumann algebras. **90f:46099**
Denizeau, Yves *see* **Baillet, Michel; et al., 90e:46050**
Haagerup, Uffe The injective factors of type III_λ, $0<\lambda<1$. **90g:46086**
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Kadison, R. V. Some notes on noncommutative analysis. **90i:46114**
Kawakami, Satoshi Representation theory of a locally compact group associated with a von Neumann algebra. **90e:22008**
Krygin, A. V. (*with* Sukochev, F. A.) Boundary points of convex completely symmetric sets of measurable operators. (Russian) **90g:46094**
Muhly, Paul S. (*with* Solel, Baruch) Dilations for representations of triangular algebras. **90i:47045**
Paterson, Alan L. T. The class of locally compact groups G for which $C^*(G)$ is amenable. **90m:22019**
Petz, Dénes Conditional expectation in quantum probability. **90f:46101**
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Popa, Sorin (*with* Rădulescu, Florin) Derivations of von Neumann algebras into the compact ideal space of a semifinite algebra. **90a:46165**
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Schmüdgen, Konrad Spaces of continuous sesquilinear forms associated with unbounded operator algebras. (German and Russian summaries) **90g:47086**
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Trenholme, Alice R. Maximal abelian subalgebras of function algebras associated with free products. **90c:46073**

Vaĭnerman, L. I. Generalized translation operators that are generated by differential equations. **90d:47037**

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Arzumanyan, V. A. (*with* Grigoryan, Souren Arshakovich) The boundaries of uniform algebras of operator fields. **90k:46127**
Ayupov, Sh. A. Noncommutative Choquet theory for measures on the faces of convex sets. (Russian) **90g:46091**
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Pennings, Tim (*with* Peters, Justin) Dynamical systems from function algebras. **90f:46086**
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Petz, Dénes (*with* Raggio, G. A.; Verbeure, A.) Asymptotics of Varadhan-type and the Gibbs variational principle. **90g:46098**
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Rédei, Miklós On the problem of local hidden variables in algebraic quantum mechanics. **90c:81008**
Rüttimann, Gottfried T. Weak density of states. **90j:81019**
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Werner, Reinhard An application of Bell's inequalities to a quantum state extension problem. **90m:46117**

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Baillet, Michel (*with* Denizeau, Yves; Havet, Jean-François) Indice d'une espérance conditionnelle. [Index of a conditional expectation] **90e:46050**
Bisch, Dietmar H. On the existence of central sequences in subfactors. **90m:46103**
Bures, Donald (*with* Yin, Hong Sheng) A class of shifts on the hyperfinite II_1 factor. **90m:46104**
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Choda, M. Full II_1-factors with noninteger index. **90f:46094**
— *see also* **Enomoto, Masatoshi; et al., 90f:46095**
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Enomoto, Masatoshi A characterization of Powers' binary shifts on the hyperfinite II_1-factor via group shifts. **90g:46085**
— (*with* Choda, M.; Watatani, Y.) Generalized Powers' binary shifts on the hyperfinite II_1 factor. **90f:46095**
Haagerup, Uffe The injective factors of type III_λ, $0<\lambda<1$. **90g:46086**
Hamachi, Toshihiro (*with* Kosaki, Hideki) Index and flow of weights of factors of type III. **90b:46116**
— (*with* Kosaki, Hideki) Inclusion of type III factors constructed from ergodic flows. **90b:46117**
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Jones, Vaughan Subfactors and related topics. **90i:46110**
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Lee, Sa Ge (*with* Cho, Sung Je; Kye, Seung-Hyeok) Closed semi-ideals in a II_1-factor. **90g:46087**
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Popa, Sorin On amenability in type II_1 factors. **90g:46088**
— Relative dimension, towers of projections and commuting squares of subfactors. **90f:46097**
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Wenzl, Hans Hecke algebras of type A_n and subfactors. **90b:46118**
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Connes, Alain (*with* Woods, E. J.) Hyperfinite von Neumann algebras and Poisson boundaries of time dependent random walks. **90h:46100**
Dadashyan, K. Yu. (*with* Khoruzhiĭ, S. S.) Field algebras in quantum theory with indefinite metric. III. The spectrum of the modular operator and the fundamental theorem of Tomita. (Russian. English summary) **90b:46126**
— (*with* Khoruzhiĭ, S. S.) Field algebras in quantum theory with indefinite metric. IV. (Russian. English summary) **90b:46127**
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Khoruzhiĭ, S. S. *see* **Dadashyan, K. Yu., 90b:46126** *and* **90b:46127**
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O'Donovan, D. P. A tale of three C^*-algebras. **90e:46069**
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46L40 Automorphisms, derivations

Bratteli, Ola (*with* Jørgensen, Palle E. T.) Conservative derivations and dissipative Laplacians. **90d:46089**
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Mathieu, Martin Properties of the product of two derivations of a C^*-algebra. **90k:46140**
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Nistor, Victor On the homotopy groups of the automorphism group of AF-C^*-algebras. **90g:46089**
Popa, Sorin (*with* Rădulescu, Florin) Derivations of von Neumann algebras into the compact ideal space of a semifinite algebra. **90a:46165**
Powers, Robert T. An index for continuous semigroups of $*$-endomorphisms of $\mathfrak{B}(\mathfrak{H})$. **90k:46141**
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Thaheem, A. B. On one-parameter groups of automorphisms of von Neumann algebras. **90a:46166**
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Frank, Michael Elements of Tomita-Takesaki theory for embeddable AW^*-algebras. **90m:46093**
Hannabuss, K. C. KMS states for reduced groups, theta functions and the Powers-Størmer construction. **90b:46115**
Katayama, Yoshikazu A duality for an action of a countable amenable group on a hyperfini II_1-factor. **90m:46119**
Kosaki, Hideki Characterization of crossed product (properly infinite case). **90k:46139**
Ling, Kuen-Shan (*with* Muhly, Paul S.) An automorphic form of Ando's theorem. **90h:46103**
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Packer, Judith A. (*with* Raeburn, Iain) Twisted crossed products of C^*-algebras. **90g:46097**
Pedersen, Steen Groups of isometries on operator algebras. **90b:46124**
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Solel, Baruch Coordinates for analytic operator algebras. **90a:46161**
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Watatani, Y. Index for C^*-subalgebras. **90i:46104**

46L45 Decomposition theory

Ara, Pere Left and right projections are equivalent in Rickart C^*-algebras. **90g:46090**
Rieffel, Marc A. Continuous fields of C^*-algebras coming from group cocycles and actions **90b:46120**

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Sutherland, Colin E. Cartan subalgebras of regular extensions of von Neumann algebras. **90c:22018**
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46L50 Noncommutative integration, noncommutative probability

Accardi, L. (*with* Sinha, Kalyan) Quantum stop times. **90i:46111**
— (*with* Bach, A.) Central limits of squeezing operators. **90m:46105**
— (*with* Quaegebeur, J.) The Itô algebra of quantum Gaussian fields. **90m:46106**
Alberti, Peter M. (*with* Heinemann, Volker) Bounds for the C^*-algebraic transition probability yield best lower and upper bounds to the overlap. **90i:46112**
Applebaum, David Stopping unitary processes in Fock space. **90m:46107**
Araki, Huzihiro An application of Dye's theorem on projection lattices to orthogonally decomposable isomorphisms. **90f:46098**
Ayupov, Sh. A. Noncommutative Choquet theory for measures on the faces of convex sets (Russian) **90g:46091**
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Barnett, Chris (*with* Wilde, Ivan F.) Quantum Doob-Meyer decompositions. **90a:46168**
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Belavkin, V. P. Quantum branching processes and the nonlinear dynamics of multiquantu systems. **90j:46053**
Cecchini, Carlo Some noncommutative Radon-Nikodým theorems for von Neumann algebras. **90g:46092**
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46L70 Jordan algebras, Lie algebras [see also 46H70]

Abdullaev, R. Z. *see* **Ayupov, Sh. A., 90k:46151**
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Rodríguez-Palacios, Ángel Mutations of C^*-algebras and quasiassociative JB*-algebras. **90g:46100**
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46L80 K-theory and operator algebras [see also 18Fxx, 19Kxx, 46M20, 55Rxx]

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Connes, Alain Compact metric spaces, Fredholm modules, and hyperfiniteness. **90i:46124**
Fox, Jeff (*with* Haskell, Peter) A new proof of the K-amenability of SU(1, 1). **90a:46180**
Gong, Gui Hua Smooth extensions for a finite CW complex. **90i:46125**
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Ji, Ronghui (*with* Kaminker, J.) The K-theory of Toeplitz extensions. **90b:46130**
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— Entire cyclic cohomology of $\mathbf{Z}/2$-graded Banach algebras. **90e:46067**
Kerov, S. V. Combinatorial examples in the theory of AF-algebras. (Russian. English summary) **90j:46062**
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— Entire cyclic cohomology of Banach algebras and characters of θ-summable Fredholm modules. **90c:46094**

— (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**

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46Mxx Categorical methods [see also 18–XX]

46M05 Tensor products

Adelman, Murray (*with* Kock, Anders) A note on closed ideals in rings of smooth functions. **90d:46100**
Defant, Andreas (*with* Floret, Klaus) Topological tensor products and the approximation property of locally convex spaces. **90e:46072**
Floret, Klaus *see* **Defant, Andreas, 90e:46072**
Hemasinha, Rohan A construction of a base for the m fold tensor product of a Banach space. **90e:46073**
Kock, Anders *see* **Adelman, Murray, 90d:46100**
Shotaev, G. N. The tensor product of lattice-normed spaces. **90e:46074**

Items with secondary classifications in 46M05

Bonet, José (*with* Galbis, Antonio) A note on Taskinen's counterexamples on the problem of topologies of Grothendieck. **90g:46009**
Carl, Bernd (*with* Defant, Andreas; Ramanujan, M. S.) On tensor stable operator ideals. **90b:47080**
Castillo, Jesús M. F. Grothendieck's inequality. (Spanish) **90c:47033**
Defant, Andreas *see* **Carl, Bernd; et al., 90b:47080**
Doplicher, Sergio (*with* Roberts, John E.) Endomorphisms of C^*-algebras, cross products and duality for compact groups. **90j:46058**
Galbis, Antonio *see* **Bonet, José, 90g:46009**
Huruya, Tadasi (*with* Kye, Seung-Hyeok) Fubini products of C^*-algebras and applications to C^*-exactness. **90c:46069**
Kye, Seung-Hyeok *see* **Huruya, Tadasi, 90c:46069**
Light, William A. Boolean sums of operators and projection constants. **90c:47011**
Lindström, Mikael (*with* Schlumprecht, Thomas) On limitedness in locally convex spaces. **90f:46003**
Mądrecki, Andrzej Tensor product of stable measures in Banach spaces of stable type. **90b:60007**
Radyno, Ya. V. *see* **Zerzaĭkhi, T., 90m:47025**
Ramanujan, M. S. *see* **Carl, Bernd; et al., 90b:47080**
Rivera Ortún, María José On the weak topology in components of Saphar's p-compact ($1 < p < \infty$) operator ideals. (Spanish. English summary) **90d:47043**
Roberts, John E. *see* **Doplicher, Sergio, 90j:46058**
Salinas, Norberto Products of kernel functions and module tensor products. **90a:46061**
Sauvageot, J.-L. Tangent bimodule and locality for dissipative operators on C^*-algebras. **90k:46145**
Schlumprecht, Thomas *see* **Lindström, Mikael, 90f:46003**
Schomburg, Bernd Bemerkungen über Tensorprodukte koerzitiver Hilbertraum-Operatoren. (English summary) [Remarks on tensor products of coercive Hilbert space operators] **90k:47078**
Sersouri, A. Opérateurs diagonaux dans les espaces à bases. [Diagonal operators in spaces with basis] **90j:47053**
Smith, R. R. Completely bounded multilinear maps and Grothendieck's inequality. **90m:46100**
Ülger, Ali Arens regularity of $K(X)$. **90b:47081**
Verma, Ram U. Joint Browder spectra of D-commuting systems. **90b:47008**
Zerzaĭkhi, T. (*with* Radyno, Ya. V.) Functions of commuting unbounded operators. (Russian. English summary) **90m:47025**

46M10 Projective and injective objects

Items with secondary classifications in 46M10

Hennings, M. A. Kasparov's technical lemma for b^*-algebras. **90c:46066**
Száz, Á. Projective generation of preseminormed spaces by linear relations. **90g:46005**

46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20.}

Benkö, I. Exactness of the adjunction functor in the category of locally convex spaces. (*see* **90j:00021**)
Botnaru, D. V. Relative torsion theories of the category of separated locally convex spaces. (Russian) **90b:46132**
Crstici, Borislav (*with* Dăianu, Dan) The locally convex space category with approximation. **90d:46101**
Dăianu, Dan *see* **Crstici, Borislav, 90d:46101**
Lapidus, Michel L. Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus and generalized functional integral] **90m:46124**
Nassopoulos, George F. Duality and functional representations of certain complete algebras. (Greek summary) **90b:46133**
Nyberg, Kaisa A tame splitting theorem for Köthe spaces. **90i:46126**
Semadeni, Zbigniew On the category of compact convex sets and related categories. **90b:46134**

Items with secondary classifications in 46M15

Borceux, F. (*with* Pelletier, Joan Wick) Descent theory for Banach modules. **90b:46104**
Frölicher, Alfred (*with* Kriegl, Andreas) ★ Linear spaces and differentiation theory. **90h:46076**
Kriegl, Andreas *see* **Frölicher, Alfred, 90h:46076**
Kusraev, A. G. ★ Элементы булевозначного анализа. (Russian) [Elements of Boolean-valued analysis] **90k:03038**
Lausch, Hans (*with* Przeworska-Rolewicz, Danuta) Pseudocategories, para-algebras and linear operators. **90b:47003**
Pelletier, Joan Wick *see* **Borceux, F., 90b:46104**
Przeworska-Rolewicz, Danuta *see* **Lausch, Hans, 90b:47003**
Puystjens, R. Some aspects of generalized invertibility. **90k:47004**
Yamada, Shinichi A mathematical theory of randomized computation. II. **90d:68035b**
Zekri, Richard A new description of Kasparov's theory of C^*-algebra extensions. **90g:46106**

46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19–XX, 46L80, 55Rxx]

Christensen, Erik^{1} (*with* Sinclair, Allan M.) On the vanishing of $H^n(\mathscr{A},\mathscr{A}^*)$ for certain C^*-algebras. **90c:46093**
Connes, Alain Entire cyclic cohomology of Banach algebras and characters of θ-summable Fredholm modules. **90c:46094**
Hu, Chuanpu A generalization of K-theory for complex Banach algebras. **90b:46135**
Kleshchev, A. S. The homological dimension of Banach algebras of smooth functions is equal to infinity. **90f:46115**
Porta, Horacio (*with* Recht, Lázaro) Spaces of projections in a Banach algebra. (Spanish summary) **90a:46189**
Recht, Lázaro *see* **Porta, Horacio, 90a:46189**
Sinclair, Allan M. *see* **Christensen, Erik^{1}, 90c:46093**
Van Daele, A. A note on the K-group of a graded Banach algebra. **90d:46102**

Items with secondary classifications in 46M20

Arveson, William Continuous analogues of Fock space. **90f:47061**
Connes, Alain (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**
Coquereaux, R. (*with* Pilch, K.) String structures on loop bundles. **90k:58012**
Curtis, Philip C., Jr. (*with* Loy, R. J.) The structure of amenable Banach algebras. **90k:46114**
Dădărlat, Marius (*with* Pasnicu, Cornel) Inductive limits of $C(X)$-modules and continuous fields of AF-algebras. **90g:46079**
Davies, E. B. (*with* Rothaus, O. S.) Markov semigroups on C^*-bundles. **90i:58217**
Doran, R. S. *see* **Fell, J. M. G., 90c:46001** *and* **90c:46002**
Elliott, George A. (*with* Handelman, David E.) Addition of C^*-algebra extensions. **90e:46047**
Eschmeier, Jörg (*with* Putinar, Mihai) The sheaf $\mathscr{E}$ is not topologically flat over $\mathscr{O}$. **90h:32024**
Fell, J. M. G. (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 1. **90c:46001**
— (*with* Doran, R. S.) ★ Representations of *-algebras, locally compact groups, and Banach *-algebraic bundles. Vol. 2. **90c:46002**
Handelman, David E. *see* **Elliott, George A., 90e:46047**
Hassani, Rachid Ameziane Espaces de familles sur un module. (English summary) [Spaces of families over a module] **90j:46012**
Hilsum, Michel (*with* Skandalis, Georges) Morphismes K-orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K-oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] **90a:58169**
Ichihara, Ryo An extension of Paschke's theorem and the Mayer-Vietoris type exact sequences. **90d:46096**
Ji, Ronghui On the smoothed Toeplitz extensions and K-theory. **90m:46121**
Johnson, B. E. Derivations from $L^1(G)$ into $L^1(G)$ and $L^\infty(G)$. **90a:46122**
Julg, Pierre C^*-algèbres associées à des complexes simpliciaux. (English summary) [C^*-algebras associated to simplicial complexes] **90d:46097**
Karoubi, Max *see* **Connes, Alain, 90c:58174**
Kastler, Daniel Cyclic cocycles from graded KMS functionals. **90e:46068**
— Entire cyclic cohomology of $\mathbf{Z}/2$-graded Banach algebras. **90e:46067**
Khimshiashvili, G. N. On the theory of algebras of singular operators. (Russian) **90m:47022**
Kumjian, Alex On equivariant sheaf cohomology and elementary C^*-bundles. **90h:46102**

Larotonda, Angel (*with* Zalduendo, Ignacio) Homogeneous spectral sets and local-global methods in Banach algebras. **90a:46126**

Levi, Roni N. Spectral theory of commuting operators and K-theory. (Russian. English summary) **90k:58218**

Loy, R. J. *see* **Curtis, Philip C., Jr., 90k:46114**

Nagy, Gabriel Some remarks on lifting invertible elements from quotient C^*-algebras. **90m:46123**

Nest, Ryszard Cyclic cohomology of noncommutative tori. **90c:46089**

— Cyclic cohomology of crossed products with **Z**. **90c:46088**

Pasnicu, Cornel *see* **Dădărlat, Marius, 90g:46079**

Phillips, N. Christopher Equivariant K-theory for proper actions and C^*-algebras. **90a:46182**

— Equivariant K-theory for proper actions. II. Some cases in which finite-dimensional bundles suffice. **90a:46183**

— Inverse limits of C^*-algebras and applications. **90j:46052**

— ★ Equivariant K-theory for proper actions. **90g:46105**

Pilch, K. *see* **Coquereaux, R., 90k:58012**

Pitts, David R. On the K_0 groups of nest algebras. **90k:47097**

Putinar, Mihai *see* **Eschmeier, Jörg, 90h:32024**

Rieffel, Marc A. Continuous fields of C^*-algebras coming from group cocycles and actions. **90b:46120**

Rosenberg, Jonathan (*with* Weinberger, Shmuel) Higher G-indices and applications. **90f:58170**

Rothaus, O. S. *see* **Davies, E. B., 90i:58217**

Salinas, Norberto The Grassmann manifold of a C^*-algebra, and Hermitian holomorphic bundles. **90a:46187**

Schapira, Pierre (*with* Zampieri, Giuseppe) Microfunctions at the boundary and mild microfunctions. **90e:58145**

Skandalis, Georges Une notion de nucléarité en K-théorie (d'après J. Cuntz). (English summary) [A notion of nuclearity in K-theory (following J. Cuntz)] **90b:46131**

— *see also* **Hilsum, Michel, 90a:58169**

Slovák, Jan Peetre theorem for nonlinear operators. **90d:58007**

Takhtadzhyan, L. A. The noncommutative homology of quantum tori. **90m:18015**

Van Daele, A. A new invariant for a finite covariant system. **90a:46119**

Vasilescu, F.-H. Homogeneous operators and essential complexes. **90m:58011**

Wagoner, J. B. Topological Markov chains, C^*-algebras, and K_2. **90j:46059**

Watatani, Y. Index for C^*-subalgebras. **90i:46104**

Weinberger, Shmuel *see* **Rosenberg, Jonathan, 90f:58170**

Williams, Dana P. The structure of crossed products by smooth actions. **90i:46121**

Zalduendo, Ignacio *see* **Larotonda, Angel, 90a:46126**

Zampieri, Giuseppe *see* **Schapira, Pierre, 90e:58145**

Zekri, Richard A new description of Kasparov's theory of C^*-algebra extensions. **90g:46106**

Zhang, Haitao Fredholm theory for morphisms in quotient Banach spaces. **90g:47021**

Zhang, Shuang Stable isomorphism of hereditary C^*-subalgebras and stable equivalence of open projections. **90c:46074**

46M35 Abstract interpolation of topological vector spaces

Aĭzenshteĭn, M. Kh. Bilinear interpolation theorems and their duality. (Russian) (*see* **90h:00005**)

Aksoy, Asuman G. Intermediate spaces. (Turkish summary) **90k:46155**

Beucher, O. J. On interpolation of strictly (co-)singular linear operators. **90j:46064**

Carro, María Jesús Complex powers of positive linear operators. Interpolation. (Spanish. English summary) **90a:46190**

Ceauşu, Tr. ★ Real interpolation methods and Banach function spaces. **90k:46156**

Cwikel, M. (*with* Jawerth, B.; Milman, Mario; Rochberg, Richard) Differential estimates and commutators in interpolation theory. **90k:46157**

— (*with* Jawerth, B.; Milman, Mario) The domain spaces of quasilogarithmic operators. **90e:46075**

DeVore, R. A. (*with* Popov, Vasil Atanasov) Interpolation of approximation spaces. **90e:46076**

Hernández, Eugenio (*with* Rochberg, Richard; Weiss, Guido) Interpolation of subspaces and quotient spaces by the complex method. **90f:46116**

Jawerth, B. (*with* Milman, Mario) A theory of extrapolation spaces. First applications. (French summary) **90d:46103**

— *see also* **Cwikel, M.; et al., 90e:46075** *and* **90k:46157**

Kalton, N. J. Some remarks on interpolation of families of quasi-Banach spaces. **90k:46158**

Kim, Ho On extensions of H-space ideals and problem of A. Pietsch. I. (Korean. English summary) (Not in MR)

Maligranda, Lech On interpolation of nonlinear operators. **90k:46159**

— (*with* Mastyło, M.) Notes on noninterpolation spaces. **90f:46118**

— Some remarks on Orlicz's interpolation theorem. **90k:46160**

Mastyło, M. On interpolation spaces with the Gel′fand-Phillips property. **90a:46191**

— The universal right K-property for some interpolation spaces. **90a:46192**

— Interpolation between some symmetric spaces. **90k:46161**

— Interpolation spaces not containing l^1. **90h:46107**

— K-monotone spaces between spaces of absolutely summable series. **90k:46162**

— *see also* **Maligranda, Lech, 90f:46118**

Matter, Urs Factoring through interpolation spaces and super-reflexive Banach spaces. **90j:46065**

Milman, Mario *see* **Jawerth, B., 90d:46103; Cwikel, M.; et al., 90e:46075** *and* **90k:46157**

Neidinger, R. D. Concepts in the real interpolation of Banach spaces. **90h:46108**

Nikolova, Lyudmila Ĭ. On the interpolation of some classes of operators acting in families of Banach spaces. **90i:46127**

— Interpolation in two families of symmetrically normed ideals of compact operators. (Russian) **90j:46066**

Pesenson, I. Z. On the abstract theory of Nikol′skiĭ-Besov spaces. **90a:46193**

Popov, Vasil Atanasov *see* **DeVore, R. A., 90e:46076**

Rochberg, Richard The work of Coifman and Semmes on complex interpolation, several complex variables, and PDEs. **90f:46117**

— *see also* **Hernández, Eugenio; et al., 90f:46116** *and* **Cwikel, M.; et al., 90k:46157**

Shevchik, V. V. Dense embedding operators in Banach spaces. (Russian. English and Georgian summaries) **90m:46125**

Tabacco Vignati, Anita (*with* Vignati, Marco) A note on complex interpolation of Banach lattices. (Italian summary) **90f:46119**

Vignati, Marco Some results on interpolation of Schatten ideals. (Italian summary) **90a:46194**

— *see also* **Tabacco Vignati, Anita, 90f:46119**

Vodop′yanov, V. V. Orbits and co-orbits of a positive interpolation for Banach ideal structures. (Russian) **90h:46109**

Weiss, Guido *see* **Hernández, Eugenio; et al., 90f:46116**

Zobina, V. G. Sufficient collections for semigroups of operators. (Russian) **90h:46110**

Items with secondary classifications in 46M35

Acquistapace, Paolo Zygmund classes with boundary conditions as interpolation spaces. **90h:46059**

Amann, Herbert Parabolic evolution equations in interpolation and extrapolation spaces. **90e:47032**

Appell, Jürgen (*with* Zabreĭko, P. P.) Über die $\mathscr{L}$-Charakteristik nichtlinearer Operatoren in Räumen integrierbarer Funktionen. (English summary) [On the $\mathscr{L}$-characteristic of nonlinear operators in spaces of integrable functions] **90a:47154**

Arosio, Alberto Hyperbolic equations in Banach scales. **90k:35147**

Babaev, Azad A. Embedding theorems in some weighted vector-valued spaces. Degenerate coercive boundary value problems. (Russian. English and Azerbaijani summaries) **90k:46066**

Bagdasaryan, A. G. Interpolation and traces of functions in certain function spaces. (Russian. Armenian summary) **90m:46051**

— Interpolation and traces of functions from some anisotropic function spaces. **90g:46049**

Bakhvalov, N. S. Interpolation theorems for classes of functions with a dominating mixed derivative. (Russian. English summary) **90k:46067**

Blasco De La Cruz, Oscar Interpolation between $H^1_{B_0}$ and $l^p_{B_1}$. **90e:46021**

Borichev, A. A. Convolution equations and the structure of 1- and 2-invariant subspaces in the scale of spaces of rough growth. **90d:46063**

Carothers, N. L. (*with* Dilworth, S. J.) Geometry of Lorentz spaces via interpolation. **90g:46044**

— (*with* Dilworth, S. J.) Inequalities for sums of independent random variables. **90f:60005**

Castillo, Jesús M. F. Factorization of some operator ideals. (Spanish) **90c:47078**

Chen, Li^2 Inequalities for weighted interpolation in the space $\Lambda(X)$. (Chinese) **90i:46052**

Cowling, Michael (*with* Fendler, Gero; Fournier, John J. F.) Variants of Littlewood-Paley theory. **90m:42016**

Dechevski, L. T. On the constants of equivalence between some functional moduli and K-functionals. **90k:41020**

Di Blasio, Gabriella Characterization of interpolation spaces and regularity properties for holomorphic semigroups. **90b:46069**

Dilworth, S. J. A scale of linear spaces related to the L_p scale. **90m:46047**

— *see also* **Carothers, N. L., 90f:60005** *and* **90g:46044**

D′yakonov, K. M. An interpolation problem and equivalent norms in the spaces K^p_θ. **90g:46052**

Dzhabrailov, M. S. Some vector-valued function B-spaces. (Russian. English and Azerbaijani summaries) **90k:46082**

Echandia, V. Interpolation between dyadic Hardy spaces $\mathbf{H}^p$: the real method. **90i:46062**

van Eijndhoven, S. J. L. (*with* Kruszyński, Paweł) Spectral trajectories, duality and inductive-projective limits of Hilbert spaces. **90a:47115**

Fendler, Gero *see* **Cowling, Michael; et al., 90m:42016**

Fournier, John J. F. *see* **Cowling, Michael; et al., 90m:42016**

Fujii, Junichi Characterizing the geometric operator mean by the interpolation theory. **90a:47039**

Geisler, Michael H. G. Besov spaces on compact Lie groups. **90a:46072**

Gröchenig, Karlheinz Unconditional bases in translation and dilation invariant function spaces on $\mathbf{R}^n$. **90g:46053**

Hudzik, H. (*with* Maligranda, Lech) An interpolation theorem in symmetric function F-spaces. **90m:46048**

Ivanov, Kamen G. A characterization of weighted Peetre K-functionals. **90h:41038**

Kolyada, V. I. On the relations between moduli of continuity in various metrics. (Russian) **90k:41021**

Kozłowski, Wojciech M. Notes on modular function spaces. I, II. **90i:46057**

Krepkogorskiĭ, V. L. Spaces of functions that admit description in terms of rational approximation in the norm BMO. **90g:46046**

Kruszyński, Paweł *see* **van Eijndhoven, S. J. L., 90a:47115**

Leopold, Hans-Gerd Interpolation of Besov spaces of variable order of differentiation. **90h:46067**

Liu, Gui Zhong ★ Evolution equations and scales of Banach spaces. **90h:47073**

Lizorkin, P. I. (*with* Shakhmurov, V. B.) Embedding theorems for vector-valued functions. I. (Russian) **90k:46088**

Maligranda, Lech *see* **Hudzik, H., 90m:46048**

Matveev, E. R. Interpolation of positive operators in Sobolev spaces. (Russian) (*see* **90m:00015**)

Mekler, A. A. Natural sequences connected with concave functions. (Russian) (*see* **90d:00009**)

Nazarov, A. I. Interpolation of linear spaces and estimates for the maximum of a solution for parabolic equations. (Russian) **90i:35119**

Nowak, Marian Unions and intersections of families of L^p-spaces. **90b:46062**

Ovchinnikov, V. I. Interpolation theorems for $L_{p,q}$ spaces. **90a:46066**

Peng, Li Zhong Hankel operators on the Paley-Wiener space in $\mathbf{R}^d$. **90h:47050**

Persson, Lars-Erik Some elementary inequalities in connection with X^p-spaces. **90k:46061**

Pustyl′nik, E. I. On an inequality of Lorentz and Shimogaki. **90b:46063**

Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. **90i:47016**

Robinson, Derek W. Lipschitz operators. **90j:22011**

Russu, G. I. The spectrum of an operator in a couple of Banach spaces. **90h:47012**
Serov, V. S. Interpolation of Besov classes and absolute convergence of Fourier series. (Russian) **90e:46028**
Shakhmurov, V. B. *see* **Lizorkin, P. I., 90k:46088**
Shevchik, V. V. Noncompact dense embedding operators in Banach spaces. **90h:46033**
— Not strictly singular operators with nonclosed range. **90j:47017**
Sobukawa, Takuya Interpolation theory on Sobolev spaces over the abstract Wiener space. **90k:46078**
Straube, Emil J. Interpolation between Sobolev and between Lipschitz spaces of analytic functions on starshaped domains. **90c:46036**
Tabacco Vignati, Anita (*with* Vignati, Marco) Spectral theory and complex interpolation. **90a:47011**
Vignati, Marco *see* **Tabacco Vignati, Anita, 90a:47011**
Zabreĭko, P. P. *see* **Appell, Jürgen, 90a:47154**

46M40 Inductive and projective limits [see also 46A12]

Items with secondary classifications in 46M40

Arens, Richard The limit of a sequence of squares in an algebra need not be a square. **90f:46078**
Bierstedt, Klaus-D. An introduction to locally convex inductive limits. **90a:46004**
Száz, Á. Projective generation of preseminormed spaces by linear relations. **90g:46005**

46M99 None of the above, but in this section

Kadelburg, Z. (*with* Radenović, S.) Stability of ultraproducts of linear topological spaces. (Serbo-Croatian summary) **90b:46136**
Radenović, S. *see* **Kadelburg, Z., 90b:46136**

Items with secondary classifications in 46M99

Almeida, Jorge The algebra of implicit operations. **90e:08007**
Bastero, J. (*with* Mira, J. M.) A note on perturbation of stable norms. **90h:46024**
Beg, Ismat (*with* Popovici, Ioan Mircea) Ultraproduct and finite representability of Banach lattices. **90e:46016**
Cambern, Michael (*with* Jarosz, K.) Ultraproducts, ε-multipliers, and isomorphisms. **90c:46047**
Castillo, Jesús M. F. On Fréchet-Schwartz spaces of maximal diametral dimension. (Spanish. English summary) **90b:46006**
Domański, Paweł (*with* Ortyński, Augustyn) Complemented subspaces of products of Banach spaces. **90b:46004**
Fehér, Franziska (*with* Klaukien, Elke) p-estimates for ultraproducts of Banach lattices and reflexivity. **90i:46043**
Haydon, Richard Random Banach spaces and direct integrals. **90i:46042**
— (*with* Lin, Pei-Kee) Ultrapowers of rearrangement-invariant function spaces. I. **90e:46017**
Jarosz, K. *see* **Cambern, Michael, 90c:46047**
Johnson, B. E. Perturbations of multiplication and homomorphisms. **90c:46062**
Klaukien, Elke *see* **Fehér, Franziska, 90i:46043**
Klimova, I. M. (*with* Tokarev, E. V.) A model-theoretic characterization of Hilbert spaces. **90e:46019**
Kluvánek, Igor Banach algebras occurring in spectral theory. **90i:47036**
Kocatepe, Mefharet Classification of Dragilev spaces of types -1 and 0. **90f:46017**
Krupa, Andrzej (*with* Zawisza, Bogdan) Ultrapowers of unbounded selfadjoint operators. **90i:47026**
Kusraev, A. G. ★ Элементы булевозначного анализа. (Russian) [Elements of Boolean-valued analysis] **90k:03038**
Lin, Pei-Kee *see* **Haydon, Richard, 90e:46017**
Metafune, G. (*with* Moscatelli, V. B.) Complemented subspaces of sums and products of Banach spaces. **90j:46003**
Mira, J. M. *see* **Bastero, J., 90h:46024**
Moscatelli, V. B. *see* **Metafune, G., 90j:46003**
Nel, Louis Daniel[1] Categorical differential calculus for infinite-dimensional spaces. (French summary) **90k:58016**
Ortyński, Augustyn *see* **Domański, Paweł, 90b:46004**
Paulsen, Vern (*with* Power, Stephen; Smith, R. R.) Schur products and matrix completions. **90j:46051**
Popovici, Ioan Mircea *see* **Beg, Ismat, 90e:46016**
Porst, Hans-E. Erratum to: "On free topological algebras" [Cahiers Topologie Géom. Différentielle Catégoriques **28** (1987), no. 3, 235–253; MR 89e:22004]. **90e:22002**
Power, Stephen *see* **Paulsen, Vern; et al., 90j:46051**
Rivera Ortún, María José On topological properties of components of the surjective hull of the ideal of quasi-p-nuclear operators. **90j:47054**
Smith, R. R. *see* **Paulsen, Vern; et al., 90j:46051**
Tokarev, E. V. *see* **Klimova, I. M., 90e:46019**
Vogt, Dietmar Power series space representations of nuclear Fréchet spaces. **90k:46009**
Wong, Ngai-Ching *see* **Wong, Yau Chuen, 90i:46009**
Wong, Yau Chuen (*with* Wong, Ngai-Ching) Topologies and bornologies determined by operator ideals. **90i:46009**
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Zawisza, Bogdan *see* **Krupa, Andrzej, 90i:47026**

46N05 Miscellaneous applications of functional analysis

Jaffard, S. Exposants de Hölder en des points donnés et coefficients d'ondelettes. (English summary) [Hölder exponents at given points and wavelet coefficients] **90k:46163**
— (*with* Meyer, Y.) Bases d'ondelettes dans des ouverts de $\mathbf{R}^n$. [Wavelet bases in open sets in $\mathbf{R}^n$] **90k:46164**
Meyer, Y. *see* **Jaffard, S., 90k:46164**
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Attouch, Hédy *see* **Azé, D.; et al., 90g:90118**
Azé, D. (*with* Attouch, Hédy; Wets, Roger J.-B.) Convergence of convex-concave saddle functions: applications to convex programming and mechanics. (French summary) **90g:90118**
Basu, Debabrata[2] Representations of $\mathrm{SL}(2,\mathbf{R})$ in a Hilbert space of analytic functions and a class of associated integral transforms. **90h:22013**
Battle, Guy How to recover Euclidean invariance from an ondelette cluster expansion. (French summary) **90i:81057**
Baumann, Klaus On canonical irreducible quantum field theories describing bosons and fermions. **90c:81097**
Benedetto, J. J. Gabor representations and wavelets. **90h:42044**
Bogolyubov, N. N. (*with* Logunov, A. A.; Oksak, A. I.; Todorov, I. T.) ★ Общие принципы квантовой теории поля. (Russian) [General principles of quantum field theory] **90b:81001**
Busch, Paul (*with* Lahti, Pekka J.) The determination of the past and the future of a physical system in quantum mechanics. **90e:81008**
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Chen, Guang Jun *see* **Wang, Chang Yu, 90i:90119**
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Chilin, V. I. (*with* Shipovskiĭ, A. N.) A statistical ergodic theorem in nonseparable symmetric spaces for dynamic systems with K-parameter time. (Russian) **90d:28023b**
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Cohen, David W. ★ An introduction to Hilbert space and quantum logic. **90c:81012**
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Đinh Thế Lục A closedness theorem for nonconvex sets. **90a:90183**
Dizioğlu, Bekir Eine Weiterführung der Variations- und Funktionalrechnung für die Anwendung in den Optimierungsverfahren. (English summary) [An extension of variational calculus and functional analysis to applications in optimization methods] **90f:49015**
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Ivashchuk, V. D. Regularization of an ε-metric. II. The limit $\varepsilon=+0$. (Russian) **90b:81090**
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Jurek, Zbigniew J. Random integral representations for classes of limit distributions similar to Lévy class L_0. II. **90g:60018**
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Markus, A. S. (*with* Pöltz, R.) Various measures of noncompactness for linear operators in some Banach spaces. (Russian) **90i:47056**
Martellotti, Anna (*with* Salvadori, Anna) Some minimax inequalities for functions taking values in a Riesz space. **90c:90041**
Masani, P. R. The place of multiplicative integration in modern analysis. **90b:01058**
Mehta, Ghanshyam Maximal elements in Banach spaces. **90g:46039**
Meyer, P.-A. A note on shifts and cocycles. **90i:60043**
Morchio, G. (*with* Pierotti, D.; Strocchi, F.) The Schwinger model revisited. **90a:81066**
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Nagel, Bengt Introduction to rigged Hilbert spaces (RHS). (*see* **90i:81006**)
Navara, Mirko (*with* Pták, Pavel; Rogalewicz, Vladimír) Enlargements of quantum logics. **90a:03106**
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Nishijima, Kazuhiko Gauge freedom in the representations of BRS algebra. **90m:81065**
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Páles, Z. A Hahn-Banach theorem for separation of semigroups and its applications. **90m:46010**
Parczyk, Krystyna Time-average for physical quantities in infinite classical systems. **90d:28024**
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Pöltz, R. Measures of noncompactness for bounded sets and linear operators in some Banach spaces. (Russian) **90i:47057**
— *see also* **Markus, A. S., 90i:47056**
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Pták, Vlastimil Linear fractional transformations and companion matrices. **90c:15006**
Pulmannová, S. Some properties of transition amplitude spaces. (*see* **90a:00026**)
Reiter, Hans (*with* Thirring, W.) Are x and p incompatible observables? **90h:81016**
Ribarska, N. K. A Radon-Nikodým compact which is not a Gruenhage space. **90e:54073**
Rideau, G. Nontrivial extensions of a massless representation with definite helicity of the Poincaré group in $3+1$ dimensions by the tensor product of two other massless representations with definite helicity. **90c:22051**
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Schmeelk, John Infinite-dimensional Fock spaces and associated creation and annihilation operators. **90c:46049**
Schmid, Rudolf (*with* Simoni, Alberto) On infinite-dimensional variational principles with constraints. **90e:58039**
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Summers, Stephen J. (*with* Werner, Reinhard) Maximal violation of Bell's inequalities for algebras of observables in tangent spacetime regions. (French summary) **90d:81078**
Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**
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Tervo, J. ★ Some algebras of Fourier series operators related to pseudo-differential operators. **90a:47134**
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Wang, Chang Yu (*with* Chen, Guang Jun) Some properties of closed point-to-set mappings. (Chinese) **90i:90119**
Ward, J. A. Analytic functions which operate on homogeneous algebras. **90a:43003**
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46P05 Functional analysis over fields other than R or C; non-Archimedean functional analysis [see also 12J25, 32E27]

Borrey, S. Semi-convex sets in vector spaces over a non-Archimedean complete valued field. **90k:46165**
De Grande-De Kimpe, N. (*with* Pérez-Garciá, Cristina) Weakly closed subspaces and the Hahn-Banach extension property in p-adic analysis. **90a:46196**
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El Yaacoubi, M. Modules de Banach p-adiques plats et injectifs. (English summary) [Flat and injective p-adic Banach modules] **90g:46107**
Escassut, Alain (*with* Sarmant-Durix, Marie-Claude) The differential equation $y' = fy$ in the algebras $H(D)$. **90k:46166**
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Kiyosawa, Takemitsu On spaces of compact operators in non-Archimedean Banach spaces. **90k:46167**
Martínez-Maurica, J. (*with* Pérez-Garciá, Cristina) F-spaces over local fields: the extension property. (Spanish. English summary) **90b:46137**
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Pérez-Garciá, Cristina Compactoid sets in p-adic locally convex spaces with the Hahn-Banach extension property. **90k:46168**
— Non-Archimedean polar spaces and the strongest locally convex topology. **90k:46169**
— *see also* **De Grande-De Kimpe, N., 90a:46196; Martínez-Maurica, J., 90b:46137** *and* **90h:46111**
Pombo, Dinamérico P., Jr. Polynomials in topological vector spaces over valued fields. **90i:46128**
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Schikhof, W. H. The continuous linear image of a p-adic compactoid. **90c:46095**
— p-adic nonconvex compactoids. **90k:46170**
Siddiqi, A. H. (*with* Gupta, Satish Chand; Siddiqi, Ataullah) On ultra m-metric spaces and non-Archimedean m-normed spaces. **90g:46108**
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Somasundaram, D. Inclusion theorems on matrix transformations of some sequence spaces over non-Archimedian fields. IV. **90d:46104**
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Urbański, Ryszard On modular spaces and p-critical modulars. (Russian summary) **90j:46068**
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Cherkov, V. G. Some operators in spaces of functions over a finite field. (Russian) (*see* **90m:00015**)
Daly, James E. Factorization of Hardy spaces on local fields. **90a:46049**
Missarov, M. D. Random fields on the adèle ring and Wilson's renormalization group. (French summary) **90m:81075**
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Selvamuthu, V. *see* **Rangan, G., 90c:26071**
Spokoĭnyĭ, B. L. Non-Archimedean geometry and quantum mechanics. **90j:81071**
Su, Wei Yi Pseudodifferential operators in Besov spaces over local fields. **90h:47100**
Sushchanskiĭ, V. I. Standard subgroups of the isometry group of the metric space of p-adic integers. (Ukrainian. Russian summary) **90k:11160**
Timotin, Dan C_p-estimates for certain kernels on local fields. **90a:42010**
Vladimirov, V. S. (*with* Volovich, I. V.) p-adic quantum mechanics. **90h:81049**
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46Q05 Nonstandard functional analysis [see also 03Hxx]

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Benninghofen, B. *see* **Stroyan, K. D.; et al., 90b:03097**
Brunet, Bernard Une démonstration nonstandard du théorème de représentation de Stone. [A nonstandard proof of the Stone representation theorem] **90h:46049**
Canela, M. A. (*with* Ralló, M.) On the Mackey convergence conditions. **90a:46006**
Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_2(\mathbf{R}^n)$. **90a:47054**
Hirschfeld, Joram The nonstandard treatment of Hilbert's fifth problem. **90m:22021**
Kadelburg, Z. (*with* Radenović, S.) Stability of ultraproducts of linear topological spaces. (Serbo-Croatian summary) **90b:46136**
Kinoshita, Moto-o Nonstandard representations of distributions. I. **90b:46080**
Klimova, I. M. (*with* Tokarev, E. V.) A model-theoretic characterization of Hilbert spaces. **90e:46019**
Krupa, Andrzej (*with* Zawisza, Bogdan) Ultrapowers of unbounded selfadjoint operators. **90i:47026**

Kutateladze, S. S. Components of positive operators. **90j:47044**

Lumer, Gunter Applications de l'analyse non standard à l'approximation des semi-groupes d'opérateurs et aux équations d'évolution. (English summary) [Applications of nonstandard analysis to the approximation of operator semigroups and to evolution equations] **90h:47075**

Lyantse, V. È. On a perturbation that is infinitely small in the strong operator topology. **90k:47027**

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Stroyan, K. D. (*with* Benninghofen, B.; Richter, M. M.) Superinfinitesimals in topology and functional analysis. **90b:03097**

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46R05 Constructive functional analysis [see also 03Fxx]

Bridges, Douglas S. (*with* Julian, William; Mines, Ray) A constructive treatment of open and unopen mapping theorems. **90d:46105**

Ishihara, Hajime Constructive reflexivity of a uniformly convex Banach space. **90a:46198**

— On the constructive Hahn-Banach theorem. **90a:46197**

— Constructive compact linear mappings. **90k:46171**

Julian, William *see* **Bridges, Douglas S.; et al., 90d:46105**

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Mandelkern, Mark Brouwerian counterexamples. **90c:01051**

Pour-El, Marian B. (*with* Richards, Ian) ★ Computability in analysis and physics. **90k:03062**

Richards, Ian *see* **Pour-El, Marian B., 90k:03062**

47–XX Operator theory

47–00 Handbooks, dictionaries, and other reference works

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(Gamkrelidze, R. V.) *see* **Current problems in mathematics. Fundamental directions, 90j:00004a**

Lyubich, Yu. I. Linear functional analysis. (Russian) **90j:00004b**

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47–01 Elementary exposition; textbooks

(Bade, W. G.) *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**

(Bartle, Robert G.) *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**

Beauzamy, Bernard ★ Introduction to operator theory and invariant subspaces. **90d:47001**

Dunford, Nelson (*with* Schwartz, Jacob T.) ★ Linear operators. Part I. **90g:47001a**

— (*with* Schwartz, Jacob T.) ★ Linear operators. Part II. **90g:47001b**

— (*with* Schwartz, Jacob T.) ★ Linear operators. Part III. **90g:47001c**

Schwartz, Jacob T. *see* **Dunford, Nelson, 90g:47001a; 90g:47001b** *and* **90g:47001c**

Thayer, Francisco Javier ★ Operadores auto-adjuntos e equações diferenciais parciais. (Portuguese) [Selfadjoint operators and partial differential equations] **90b:47001**

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Azizov, T. Ya. (*with* Iokhvidov, I. S.) ★ Linear operators in spaces with an indefinite metric. **90j:47042**

Carroll, Robert Wayne ★ Mathematical physics. **90g:00002**

Dautray, Robert (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 8. (French) [Mathematical analysis and computing for science and technology. Vol. 8] **90m:00006b**

(Dawson, E. R.) *see* **Azizov, T. Ya., 90j:47042**

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Griffel, D. H. ★ Linear algebra and its applications. Vol. 2. **90f:15001b**

Heuser, Harro ★ Funktionalanalysis. (German) [Functional analysis.] **90m:46001**

Iokhvidov, I. S. *see* **Azizov, T. Ya., 90j:47042**

Kesavan, S. ★ Topics in functional analysis and applications. **90m:46002**

Kolmogorov, A. N. (*with* Fomin, S. V.) ★ Элементы теории функций и функционального анализа. (Russian) [Elements of the theory of functions and functional analysis] **90k:46001**

Kreyszig, Erwin ★ Introductory functional analysis with applications. **90m:46003**

Kuzhel', A. V. ★ Расширения эрмитовых операторов. (Russian) [Extensions of Hermitian operators] **90k:47052**

Lions, Jacques-Louis *see* **Dautray, Robert, 90m:00006b**

Maddox, I. J. ★ Elements of functional analysis. **90k:46002**

Murakami, Haruo ★ Kansukaiseki. (Japanese) [Functional analysis] **90i:46001**

Pedersen, Gert K. ★ Analysis now. **90f:46001**

(Tikhomirov, V. M.) *see* **Kolmogorov, A. N., 90k:46001**

Young, Nicholas J. ★ An introduction to Hilbert space. **90e:46001**

47–02 Advanced exposition (research surveys, monographs, etc.)

Alpay, Daniel (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**

Ball, Joseph A. Nevanlinna-Pick interpolation: generalizations and applications. **90g:47002**

— (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**

— (*with* Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. **90m:47005**

Bercovici, H. ★ Operator theory and arithmetic in H^∞. **90e:47001**

Cohen, Nir *see* **Ball, Joseph A.; et al., 90m:47005**

Dym, H. ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**

Gohberg, I. (*with* Kaashoek, M. A.; Ran, A. C. M.) Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization. **90m:47003**

— (*with* Kaashoek, M. A.) Regular rational matrix functions with prescribed pole and zero structure. **90m:47004**

— (*with* Rubinstein, Sorin) Proper contractions and their unitary minimal completions. **90m:47007**

— *see also* **Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006** *and* **Topics in interpolation theory of rational matrix-valued functions, 90m:47001**

Kaashoek, M. A. *see* **Gohberg, I.; et al., 90m:47003** *and* **90m:47004**

Larson, David R. Triangularity in operator algebras. **90b:47002**

Ran, A. C. M. *see* **Gohberg, I.; et al., 90m:47003** *and* **Ball, Joseph A.; et al., 90m:47005**

Rodman, Leiba *see* **Ball, Joseph A.; et al., 90m:47002**

Rubinstein, Sorin *see* **Gohberg, I., 90m:47007**

Items listed otherwise than by author

Topics in interpolation theory of rational matrix-valued functions ★ Topics in interpolation theory of rational matrix-valued functions. **90m:47001**

Items with secondary classifications in 47–02

Belitskiĭ, G. R. (*with* Lyubich, Yu. I.) ★ Matrix norms and their applications. **90g:15003**

Bukhvalov, A. V. Order-bounded operators in vector lattices and spaces of measurable functions. (Russian) **90c:47062**

Davidson, Kenneth R. ★ Nest algebras. **90f:47062**

Gantmakher, F. R. ★ Теория матриц. (Russian) [Theory of matrices] **90a:15001**

(Iacob, Andrei) *see* **Belitskiĭ, G. R., 90g:15003**

(Lidskiĭ, V. B.) *see* **Gantmakher, F. R., 90a:15001**

Lyubich, Yu. I. *see* **Belitskiĭ, G. R., 90g:15003**

Pour-El, Marian B. (*with* Richards, Ian) ★ Computability in analysis and physics. **90k:03062**

(Quandt, Juergen) *see* **Zeidler, Eberhard, 90b:00004**

Richards, Ian *see* **Pour-El, Marian B., 90k:03062**

Rodman, Leiba ★ An introduction to operator polynomials. **90k:47032**

Singh, U. N. Shift operators—the building blocks of operator theory. **90c:47054**

Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. **90d:47021**

Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Volkmer, Hans, 90d:47021**

47–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 47–04

Kukareko, E. P. *see* **Pashkevich, A. P.,** (Not in MR)

Pashkevich, A. P. (*with* Kukareko, E. P.) An iterative algorithm for solving an inverse problem of kinematics. (Russian) (Not in MR)

47–06 Proceedings, conferences, etc.

(Gohberg, I.) *see* **Contributions to operator theory and its applications, 90d:47002**

(Helton, J. W.) *see* **Contributions to operator theory and its applications, 90d:47002**

(Nikol'skiĭ, N. K.) *see* **Toeplitz operators and spectral function theory, 90h:47001**

(Rodman, Leiba) *see* **Contributions to operator theory and its applications, 90d:47002**

Items listed otherwise than by author

Conference:

Operator Theory and Functional Analysis ★ Contributions to operator theory and its applications. **90d:47002**

Contributions to operator theory and its applications ★ Contributions to operator theory and its applications. **90d:47002**

Linear operator theory and its boundaries ★ Senkei sayōsoron to sono shūhen. (Japanese) [Linear operator theory and its frontiers] **90k:47001**

Mesa, AZ ★ Contributions to operator theory and its applications. **90d:47002**

Méthodes topologiques en analyse convexe ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**

Montreal, PQ ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**

NATO Advanced Study Institute:

Variational Methods in Nonlinear Problems ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**

Spectral and scattering theories of differential operators and related topics ★ Bibunsayoso no supekutoru sanran riron to sono shuhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] **90d:47003**

Symposium:
  Linear Operator Theory and its Boundaries ★ Senkei sayōsōron to sono shūhen. (Japanese) [Linear operator theory and its frontiers] **90k:47001**
  Spectral and Scattering Theories of Differential Operators and Related Topics ★ Bibunsayoso no supekutoru sanran riron to sono shuhen. (Japanese) [The spectral and scattering theories of differential operators and related topics] **90d:47003**
Toeplitz operators and spectral function theory ★ Toeplitz operators and spectral function theory. **90h:47001**
Topological methods in convex analysis ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**

Items with secondary classifications in 47–06

(Clément, Philippe) *see* **Semigroup theory and applications, 90b:00010**
(Colella, David) *see* **Commutative harmonic analysis, 90a:43001**
(Da Prato, G.) *see* **Volterra integrodifferential equations in Banach spaces and applications, 90d:00047**
(Dym, H.) *see* **Gohberg anniversary collection, 90k:00026** *and* **90k:00027**
(Gill, Tepper L.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**
(Gohberg, I.) *see* **Gohberg anniversary collection, 90k:00026** *and* **90k:00027**
(Goldberg, Seymour) *see* **Gohberg anniversary collection, 90k:00026** *and* **90k:00027**
(Holden, Helge) *see* **Schrödinger operators, 90j:00024**
(Iannelli, M.) *see* **Volterra integrodifferential equations in Banach spaces and applications, 90d:00047**
(Invernizzi, Sergio) *see* **Semigroup theory and applications, 90b:00010**
(Jensen, Arne^2) *see* **Schrödinger operators, 90j:00024**
(Kaashoek, M. A.) *see* **Gohberg anniversary collection, 90k:00026** *and* **90k:00027**
(Lancaster, Peter) *see* **Gohberg anniversary collection, 90k:00026** *and* **90k:00027**
(Martín Peinador, Elena) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Mitidieri, Enzo) *see* **Semigroup theory and applications, 90b:00010**
(Plans, Antonio) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Prössdorf, Siegfried) *see* **Seminar: Analysis, 90d:00032** *and* **90m:00028**
(Rodés-Usán, Alvaro Angel) *see* **Geometric aspects of Banach spaces, 90h:46001**
(Silbermann, Bernd) *see* **Seminar: Analysis, 90d:00032** *and* **90m:00028**
(Tsalyuk, Z. B.) *see* **Integral operators and equations, 90a:00005**
(Vrabie, Ioan I.) *see* **Semigroup theory and applications, 90b:00010**
(Zachary, Woodford W.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**

Items listed otherwise than by author

Berlin ★ Seminar Analysis. **90d:00032**
— ★ Seminar Analysis. **90m:00028**
Calgary, AB ★ The Gohberg anniversary collection. Vol. I. **90k:00026**
— ★ The Gohberg anniversary collection. Vol. II. **90k:00027**
Canton, NY ★ Commutative harmonic analysis. **90a:43001**
Commutative harmonic analysis ★ Commutative harmonic analysis. **90a:43001**
Conference:
  Commutative Harmonic Analysis ★ Commutative harmonic analysis. **90a:43001**
  Operator Theory: Advances and Applications ★ The Gohberg anniversary collection. Vol. I. **90k:00026**
  — ★ The Gohberg anniversary collection. Vol. II. **90k:00027**
  Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
  Volterra Integrodifferential Equations in Banach Spaces and Applications ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Contemporary Mathematics ★ Commutative harmonic analysis. **90a:43001**
Evolution equations and their applications ★ Hatten hōteishiki to sono oyō. [Evolution equations and their applications] **90h:00004**
Geometric aspects of Banach spaces ★ Geometric aspects of Banach spaces. **90h:46001**
Gohberg anniversary collection ★ The Gohberg anniversary collection. Vol. I. **90k:00026**
— ★ The Gohberg anniversary collection. Vol. II. **90k:00027**
Integral operators and equations ★ Интегральные операторы и уравнения. (Russian) [Integral operators and equations] **90a:00005**
Lecture Notes in Mathematics ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Lecture Notes in Physics ★ Schrödinger operators. **90j:00024**
Meeting:
  Trends in Semigroup Theory and Applications ★ Semigroup theory and applications. **90b:00010**
Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Oxford, MS ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
Proceedings:
  Conference on Riesz Spaces, Positive Operators and Applications ★ Proceedings of the Conference on Riesz Spaces, Positive Operators and Applications. **90h:46002**
School:
  Schrödinger Operators ★ Schrödinger operators. **90j:00024**
Schrödinger operators ★ Schrödinger operators. **90j:00024**
Semigroup theory and applications ★ Semigroup theory and applications. **90b:00010**
Seminar:
  Analysis ★ Seminar Analysis. **90d:00032**
  — ★ Seminar Analysis. **90m:00028**
Sønderborg ★ Schrödinger operators. **90j:00024**
Symposium:
  Evolution Equations and their Applications ★ Hatten hōteishiki to sono oyō. [Evolution equations and their applications] **90h:00004**
  Nonlinear Semigroups, Partial Differential Equations and Attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Trento ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Trieste ★ Semigroup theory and applications. **90b:00010**
Volterra integrodifferential equations in Banach spaces and applications ★ Volterra integrodifferential equations in Banach spaces and applications. **90d:00047**
Washington, DC ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**

47Axx Single linear operators: general theory

47A05 General (adjoints, conjugates, products, inverses, domains ranges, etc.)

Bolla, Marianna Singular values decomposition of linear operators on Hilbert spaces (the applications of the optimal features of the decomposition and numerical methods for the decomposition). (Hungarian. English summary) **90h:47002**
Bouldin, Richard Closure of invertible operators on a Hilbert space. **90m:47009**
Bryan, Robert Neff (*with* Kinyon, Michael K.; Tucker, Don H.) Coupled linear operators. **90a:47001**
Cârjă, Ovidiu Range inclusion for convex processes on Banach spaces; applications in controllability. **90g:47004**
Cross, R. W. (*with* Labuschagne, L. E.) Partially continuous and semicontinuous linear operators in normed spaces. **90i:47001**
Domanskiĭ, E. N. Some properties of the range of a conjugate operator. (Russian) **90h:47003**
— (*with* Ostrovskiĭ, M. I.) Regularizability of operators inverse to linear injections and to the superpositions of them. **90d:47004**
Du, Hong Ke A note on the minimum modulus and similarity orbits of linear operators. (Chinese) **90h:47004**
Eriksson-Bique, Sirkka-Liisa (*with* Leutwiler, Heinz) A generalization of parallel addition. **90h:47005**
Fonf, V. P. A Borel-type set of convergence of a sequence of bounded linear operators in a Banach space. (Russian) **90j:47001**
Gohberg, I. (*with* Shalom, T.) On inversion of square matrices partitioned into nonsquare blocks. **90h:47006**
Gol′dshteĭn, V. M. (*with* Kuz′minov, V. I.; Shvedov, I. A.) Normal and compact solvability of linear operators. **90k:47002**
Gowda, Huche *see* **Puttamadaiah, C., 90a:47004**
Gu, Cai Xing *see* **Li, Shao Kuan, 90h:47007**
Hochwald, Scott H. The uniqueness of the adjoint operation. III. **90f:47001**
Hsiao, Shêng Yen On the range of a closed operator. **90k:47003**
Izumino, Saichi Quotients of bounded operators. **90d:47005**
Kinyon, Michael K. *see* **Bryan, Robert Neff; et al., 90a:47001**
Kuz′minov, V. I. *see* **Gol′dshteĭn, V. M.; et al., 90k:47002**
Labuschagne, L. E. *see* **Cross, R. W., 90i:47001**
Lausch, Hans (*with* Przeworska-Rolewicz, Danuta) Pseudocategories, para-algebras and linear operators. **90b:47003**
Lee, Sung J. (*with* Nashed, M. Z.) Representation theory of topological selections of multivalued linear mappings with applications to integral and differential operators. **90i:47002**
Lee, Woo Young Relatively open mappings. **90d:47006**
Leutwiler, Heinz *see* **Eriksson-Bique, Sirkka-Liisa, 90h:47005**
Li, Shao Kuan (*with* Gu, Cai Xing) Some problems about elementary operators. (Chinese) **90h:47007**
Lumer, Gunter Singular perturbation and operators of finite local type. **90h:47008**
Lyantse, V. È. (*with* Storozh, O. G.) Conditions for the coincidence of two operators. (Ukrainian. Russian summary) (Not in MR)
Nadeem, Arif On commutative linear transformation determinants. (Not in MR)
Nashed, M. Z. *see* **Lee, Sung J., 90i:47002**
Nikaido, Gyokai Pair of closed subspaces and product of linear operators in a Hilbert space **90a:47002**
Ogawa, Hidemitsu An operator pseudo-inversion lemma. **90a:47003**
Ostrovskiĭ, M. I. *see* **Domanskiĭ, E. N., 90d:47004**
Ôta, Schôichi Unbounded nilpotents and idempotents. **90c:47001**
Przeworska-Rolewicz, Danuta Property (c) and interpolation formulae induced by right invertible operators. **90c:47002**
— *see also* **Lausch, Hans, 90b:47003**
Puttamadaiah, C. (*with* Gowda, Huche) Orthonormal sets and isoabelian operators on Banach spaces. **90a:47004**
Puystjens, R. Some aspects of generalized invertibility. **90k:47004**
Shalom, T. *see* **Gohberg, I., 90h:47006**
Shvedov, I. A. *see* **Gol′dshteĭn, V. M.; et al., 90k:47002**
Snyder, A. K. Strictly (co)singular operators, the Meyer-König Zeller property, and sums of Banach spaces. **90h:47009**
Storozh, O. G. *see* **Lyantse, V. È., (Not in MR)**
Sun, Chuan Kun The δ-numbers of elementary operators $\Gamma: T \to ATB$. (Chinese) **90h:47010**
Tucker, Don H. *see* **Bryan, Robert Neff; et al., 90a:47001**
Van hamme, J. Closed densely defined linear operators in Hilbert spaces and their generalized inverses. **90a:47005**
Wu, Pei Yuan Approximation by invertible and noninvertible operators. **90c:47003**
Xi, Jun A much weaker notion of similarity and mutual invertibility of operators. (Chinese English summary) **90g:47005**
Yan, Cong Quan On positive approximants of operators. (Chinese. English summary) **90b:47004**

Items with secondary classifications in 47A05

Babalola, V. A. Semifinite maps. **90i:46002**

Bertero, M. (*with* De Mol, C.; Pike, E. R.) Linear inverse problems with discrete data. II. Stability and regularisation. **90a:65127**
Beucher, O. J. On interpolation of strictly (co-)singular linear operators. **90j:46064**
Biedenharn, L. C. *see* **Razon, Aharon; et al., 90d:46037**
Boos, Johann (*with* Leĭger, Toivo) Some distinguished subspaces of domains of operator valued matrices. **90j:46007**
Bridges, Douglas S. (*with* Julian, William; Mines, Ray) A constructive treatment of open and unopen mapping theorems. **90d:46105**
Carlson, James W. The spectra and commutants of some weighted composition operators. **90e:47019**
Chistyakov, Aleksandr Vladimirovich *see* **Simonov, P. M., 90d:47036** *and* **90m:47021**
De Mol, C. *see* **Bertero, M.; et al., 90a:65127**
Gracia, Juan-M. (*with* de Hoyos, Inmaculada; Zaballa, Ion) Perturbation of linear control systems. **90g:49030**
Guerre, Sylvie On the closedness of the sum of closed operators of a UMD space. **90b:47069**
Harte, Robin Invertibility and singularity of operator matrices. **90a:15019**
Heinig, Georg (*with* Rost, Karla) Inversion of matrices with displacement structure. **90j:15008**
Herrero, Domingo A. (*with* Kim, Hong W.) A derivation range whose closure includes the thin operators. **90g:47067**
Horwitz, L. P. *see* **Razon, Aharon; et al., 90d:46037**
de Hoyos, Inmaculada *see* **Gracia, Juan-M.; et al., 90g:49030**
Julian, William *see* **Bridges, Douglas S.; et al., 90d:46105**
Kim, Hong W. *see* **Herrero, Domingo A., 90g:47067**
Leĭger, Toivo *see* **Boos, Johann, 90j:46007**
Lu, Shi Jie Perturbations of operators with closed range. (Chinese. English summary) **90g:47026**
Mazure, Marie-Laurence Shorted operators through convex analysis. **90i:47018**
Mines, Ray *see* **Bridges, Douglas S.; et al., 90d:46105**
Nashed, M. Z. A new approach to classification and regularization of ill-posed operator equations. **90k:65130**
Ostrovskiĭ, M. I. Pairs of regularizable inverse linear operators with nonregularizable superposition. (Russian) **90k:46037**
Ôta, Schôichi (*with* Schmüdgen, Konrad) On some classes of unbounded operators. **90d:47027**
Pike, E. R. *see* **Bertero, M.; et al., 90a:65127**
Popescu, Gelu On quasi-similarity of contractions with finite defect indices. **90b:47022**
Pták, Vlastimil Linear fractional transformations and companion matrices. **90c:15006**
Rakočević, Vladimir Moore-Penrose inverse in Banach algebras. **90a:46118**
Razon, Aharon (*with* Horwitz, L. P.; Biedenharn, L. C.) On a basic theorem of quaternion modules. **90d:46037**
Rodrigues, B. On the Pták homomorphism theorem. **90g:46007**
Rogulski, Jan Stanisław Contributions to the theory of para-analytic functions. **90d:26035**
Rost, Karla *see* **Heinig, Georg, 90j:15008**
Schmüdgen, Konrad *see* **Ôta, Schôichi, 90d:47027**
Sebestyén, Z. A proof of Parrott's theorem on quotient norms. **90h:47019**
Shevchik, V. V. Dense embedding operators in Banach spaces. (Russian. English and Georgian summaries) **90m:46125**
— Noncompact dense embedding operators in Banach spaces. **90h:46033**
— The action of an operator with nonclosed range on orthonormalized bases in a Hilbert space. (Russian) **90m:46021**
Simonov, P. M. (*with* Chistyakov, Aleksandr Vladimirovich) On the invertibility of Volterra operators in a class of invariant subspaces. (Russian) **90d:47036**
— (*with* Chistyakov, Aleksandr Vladimirovich) Conditions for the Green operator to be integral. (Russian) **90m:47021**
Slyusarchuk, V. E. Necessary and sufficient conditions for the invertibility of uniformly c-continuous functional-differential operators. **90e:34129**
Stehlíková, Beáta On the convergence of operators. (Russian summary) **90g:46095**
Sun, Chuan Kun The essential norm of an elementary operator $\Gamma: T \to ATB$. (Chinese. English summary) **90a:47022**
Zaballa, Ion *see* **Gracia, Juan-M.; et al., 90g:49030**
Zhang, Shao Hua Generalized derivations with closed ranges. II. **90e:47030**
— Generalized derivations with closed ranges. I. **90e:47029**

47A10 Spectrum, resolvent

Burlando, Laura Continuity of spectrum and spectral radius in algebras of operators. (French summary) **90a:47006**
— On the problem of invariance under holomorphic functions for a set of continuity points of the spectrum function. **90a:47007**
Cao, Guang Fu Taylor's joint spectra and joint numerical ranges. (Chinese. English summary) **90j:47002**
Casadio Tarabusi, Enrico Oka-analyticity of the essential spectrum. **90b:47005**
Curto, Raúl E. Applications of several complex variables to multiparameter spectral theory. **90d:47007**
Dore, Giovanni (*with* Venni, Alberto) Separation of two (possibly unbounded) components of the spectrum of a linear operator. **90g:47006**
El-Adawy, T. M. On the diameter of the spectrum and essential spectrum. **90k:47005**
Herrero, Domingo A. On the essential spectra of quasisimilar operators. **90b:47006**
Hladnik, Milan (*with* Omladič, Matjaž) Spectrum of the product of operators. **90a:47008**
Hughes, Rhonda J. *see* **Kantorovitz, Shmuel, 90a:47009**
Ji, Yue[1] *see* **Li, Shao Kuan, 90d:47008** *and* **90d:47009**
Jiang, Jian Fei On the essential spectrum of elementary operators and the Taylor joint spectrum. (Chinese) **90h:47011**
Kantorovitz, Shmuel (*with* Hughes, Rhonda J.) Spectral representations for unbounded operators with real spectrum. **90a:47009**
Laursen, K. B. (*with* Vrbová, Pavla) Some remarks on the surjectivity spectrum of linear operators. **90m:47010**
Lee, Woo Young Relatively open spectrum in $L(X)$. **90k:47006**
Li, Shao Kuan (*with* Ji, Yue[1]) On Taylor's joint spectrum of $2n$-tuple (L_A, R_B). **90d:47009**
— (*with* Ji, Yue[1]) On the Taylor's joint spectrum of $2n$-tuple (L_A, R_B). **90d:47008**
Máté, Attila (*with* Nevai, Paul) Eigenvalues of finite band-width Hilbert space operators and their application to orthogonal polynomials. **90k:47007**
Nagel, Rainer Towards a "matrix theory" for unbounded operator matrices. **90c:47004**
Nevai, Paul *see* **Máté, Attila, 90k:47007**
Omladič, Matjaž Quasi-invertible representations for linear operators. (Slovenian summary) **90d:47010**
— *see also* **Hladnik, Milan, 90a:47008**
Pryde, A. J. A noncommutative joint spectral theory. **90k:47008**
Rakočević, Vladimir Operators obeying a-Weyl's theorem. **90k:47009**
Russu, G. I. The spectrum of an operator in a couple of Banach spaces. **90h:47012**
Rybkin, A. V. The discrete and the singular spectrum in the trace formula for a contractive and a unitary operator. (Russian) **90k:47010**
Rynne, B. P. Multiparameter spectral theory and Taylor's joint spectrum in Hilbert space. **90a:47010**
Solomyak, B. M. Multiplicity of the spectrum, calculi and multiplication operators. **90b:47007**
Sołtysiak, A. On joint spectra of operators on a Banach space isomorphic to its square. **90j:47003**
Tabacco Vignati, Anita (*with* Vignati, Marco) Spectral theory and complex interpolation. **90a:47011**
Vasilescu, F.-H. Spectral theory in quotient Fréchet spaces. II. **90h:47013**
Venni, Alberto *see* **Dore, Giovanni, 90g:47006**
Verma, Ram U. Joint Browder spectra of D-commuting systems. **90b:47008**
Veselov, V. F. On the possibility of isolating the absolutely continuous and the singular subspace of a nondissipative operator. **90b:47009**
Vignati, Marco *see* **Tabacco Vignati, Anita, 90a:47011**
Vrbová, Pavla *see* **Laursen, K. B., 90m:47010**
Wei, Guo Qiang Spectral orthogonal projective properties of operators. (Chinese. English summary) **90h:47014**
Zemánek, Jaroslav Approximation of the Weyl spectrum. **90a:47012**
Zhang, Wen Quan Continuity of set-valued mappings and some applications to the continuity of spectra of operators. (Chinese. English summary) **90b:47010**
— A note on primitive spectra of quasisimilar operators. (Chinese. English summary) **90k:47011**
— On the Kato essential spectra of quasisimilar operators. (Chinese) **90i:47003**

Items with secondary classifications in 47A10

Alama, Stanley (*with* Deift, Percy A.; Hempel, Rainer) Eigenvalue branches of the Schrödinger operator $H - \lambda W$ in a gap of $\sigma(H)$. **90e:35046**
Amrein, Werner (*with* Boutet de Monvel-Berthier, Anne; Georgescu, Vladimir) Semicompactness and spectral analysis of N-body Hamiltonians. (French summary) **90d:47049**
— (*with* Boutet de Monvel-Berthier, Anne; Georgescu, Vladimir) On Mourre's approach to spectral theory. **90f:47031**
Andreu, F. (*with* Mazón, J. M.) On the boundary spectrum of dominated C_0-semigroups. **90a:47095**
Aomoto, K. Algebraic equations for Green kernel on a tree. **90a:47072**
Arai, Asao Spectral analysis of a quantum harmonic oscillator coupled to infinitely many scalar bosons. **90j:81035**
— A criterion for the boundedness from below with a class of symmetric operators and its applications. **90m:47039**
Aupetit, Bernard (*with* Iyamuremye, Alphonse) Sous-harmonicité de la partie de Riesz du spectre d'un opérateur. (English summary) [Subharmonicity of the Riesz part of the spectrum of an operator] **90e:46036**
Bapat, R. B. Comparing the spectral radii of two nonnegative matrices. **90e:15027**
Barnes, Bruce A. Continuity properties of the spectrum of operators on Lebesgue spaces. **90a:47076**
Berezanskiĭ, L. M. On the spectrum of the inner superposition operator. (Russian) **90i:47030**
Boutet de Monvel-Berthier, Anne *see* **Amrein, Werner; et al., 90d:47049** *and* **90f:47031**
Brown, S. W. Contractions with spectral boundary. **90b:47029**
— (*with* Chevreau, B.; Pearcy, Carl) On the structure of contraction operators. II. **90b:47030b**
Brüning, Jochen On Schrödinger operators with discrete spectrum. **90m:47062**
Buĭ Ta Long Eigenvalues of quadratic operator pencils that are connected with problems of stability. (Russian) **90k:47029**
Buslaev, A. P. Vectors with continuous sign and nonlinear spectral analysis of matrices. (Russian) **90m:15040**
Carlson, James W. The spectra and commutants of some weighted composition operators. **90e:47019**
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Allakhverdiev, B. P. (*with* Guseĭnov, G. Sh.) On the spectral theory of second-order dissipative difference operators. **90e:47026**

— *see also* **Maksudov, F. G., 90d:47046** *and* **90m:47064**

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— The extension of positive linear operators. (Romanian. English summary) **90c:47064**
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— (*with* Malamud, M. M.) A class of extensions of a Hermitian operator and the Weyl function. (Russian) **90k:47051**
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Kuzhel′, A. V. ★ Расширения эрмитовых операторов. (Russian) [Extensions of Hermitian operators] **90k:47052**
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— (*with* Allakhverdiev, B. P.) On the theory of the characteristic function and on the spectral analysis of a dissipative Schrödinger operator. **90d:47046**
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47A30 Norms (inequalities, more than one norm, etc.)

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— (*with* Kittaneh, Fuad) On some perturbation inequalities for operators. **90f:47007**
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Sebestyén, Z. A proof of Parrott's theorem on quotient norms. **90h:47019**
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Bhatia, Rajendra (*with* Kittaneh, Fuad) On the singular values of a product of operators. **90m:47033**
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Buslaev, A. P. Vectors with continuous sign and nonlinear spectral analysis of matrices. (Russian) **90m:15040**
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— (*with* Tsing, Nam-Kiu) G-invariant Hermitian forms and G-invariant elliptical norms. **90j:15036**
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47A35 Ergodic theory [see also 28Dxx]

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Baskakov, A. G. Operator ergodic theorems and complementability of subspaces of Banach spaces. **90m:47017**
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Romanelli, Silvia Almost periodic subspaces related to operator semigroups. **90j:47006**
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Bourgain, J. An approach to pointwise ergodic theorems. **90b:28016**
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— Weakly almost periodic mappings on one- and two-manifolds. **90c:54022**
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Krengel, Ulrich (*with* Lin, Michael) On the deterministic and asymptotic σ-algebras of a Markov operator. **90k:60126**
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Luschgy, H. Pairwise sufficiency and invariance. **90f:62016**
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47A40 Scattering theory [see also 34B25, 35P25, 47Dxx]

Abou-Zied, M. M. Existence of wave operators in multi-channel-scattering. **90b:47018**
Cotlar, Mischa (*with* Sadosky, Cora) Integral representations of bounded Hankel forms defined in scattering systems with a multiparametric evolution group. **90j:47009**
Gérard, C. Prolongement méromorphe de la matrice de scattering pour des problèmes à deux corps à longue portée. [Meromorphic continuation of the scattering matrix for long-range two-body problems] **90i:47009**
Gerasimenko, N. I. (*with* Pavlov, B. S.) A scattering problem on noncompact graphs. **90f:47010**
Huang, Min Jei A trace theorem for time-periodic Hamiltonian operators. **90i:47010**
Khrushchëv, S. V. The abstract inverse scattering problem and the instability of completeness of orthogonal systems. **90a:47025**
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Naboko, S. N. Conditions for the existence of wave operators in the nonselfadjoint case. (Russian) **90b:47019**
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Arsu, Gruia A time dependent scattering theory for strongly propagative systems with perturbations of short-range class. **90i:35206**
Astaburuaga, M. A. (*with* Cortés, Víctor H.; Fernández, Claudio A.) Nonlinear perturbation in classical scattering. (Spanish summary) (*see* **90d:00044**)
Baez, John C. Scattering and the geometry of the solution manifold of $\Box f + \lambda f^3 = 0$. **90g:35103**
Balslev, Erik Analyticity properties of eigenfunctions and scattering matrix. **90b:35183**
— Wave operators for dilation-analytic three-body Hamiltonians. **90b:35184**
Bollé, D. (*with* Danneels, C.; Osborn, T. A.) Local and global spectral shift functions in $\mathbf{R}^2$. **90c:81233**
Cheremshantsev, S. E. Asymptotic completeness in the problem of scattering by a Brownian particle. **90f:35158**
Cortés, Víctor H. *see* **Astaburuaga, M. A.; et al., (90d:00044)**
Cotlar, Mischa (*with* Sadosky, Cora) Generalized Bochner theorem in algebraic scattering systems. **90i:47006**
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Gérard, C. (*with* Martinez, André; Robert, D.) Breit-Wigner formulas for the scattering phase and the total scattering cross-section in the semi-classical limit. **90b:35185**
Gesztesy, F. (*with* Simon, Barry) Topological invariance of the Witten index. **90a:47032**
Grinevich, P. G. (*with* Novikov, S. P.) A two-dimensional "inverse scattering problem" for negative energies, and generalized-analytic functions. I. Energies lower than the ground state. **90a:35181**

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— (*with* Makarov, K. A.; Merkur′ev, S. P.; Motovilov, A. K.) Algebraic theory of extensions in the quantum few-body problem for particles with internal structure. **90c:81236**
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Ramm, Alexander G. Characterization of the scattering data in the three-dimensional inverse scattering problem. **90f:35202**
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— Sharp polynomial bounds on the number of scattering poles of radial potentials. **90d:35233**

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Müller, Vladimir Models for operators using weighted shifts. **90a:47027**
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— On the spectral theory of bounded operators. (Russian) **90a:47028**
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de Branges, Louis Kreĭn spaces of analytic functions. **90c:47060**
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Katsnel′son, V. È. (*with* Kheĭfets, A. Ya.; Yuditskiĭ, P. M.) An abstract interpolation problem and the theory of extensions of isometric operators. (Russian) **90b:47015**
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— (*with* Allakhverdiev, B. P.) On the theory of the characteristic function and on the spectral analysis of a dissipative Schrödinger operator. **90d:47046**
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Takahashi, Katsutoshi On the reflexivity of contractions with isometric parts. **90m:47028**
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Treil′, S. R. Angles between co-invariant subspaces, and the operator corona problem. The Szőkefalvi-Nagy problem. **90b:47057**
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Dziubiński, Izydor (*with* Połubiński, Jerzy) On some method of solving linear equations. III. **90g:47015**
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— (*with* Greenberg, William; van der Mee, C. V. M.) A class of linear kinetic equations in a Kreĭn space setting. **90a:47030**
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Hanke, Michael Linear differential-algebraic equations in spaces of integrable functions. **90g:47016**
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Simonov, P. M. (*with* Chistyakov, Aleksandr Vladimirovich) Conditions for the Green operator to be integral. (Russian) **90m:47021**
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Levchuk, O. V. (*with* Fedotov, A. M.) Construction of minimax solutions of linear ill-posed problems with random errors in the data. (Russian) **90b:65106**
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Stolbovskaya, L. V. On a generalization of a theorem of Loewner. (Russian) **90m:15038**

Vasilescu, F.-H. Homogeneous operators and essential complexes. **90m:58011**

Voigt, Jürgen On resolvent positive operators and positive C_0-semigroups on AL-spaces. **90a:47103**

Wu, Fu Chao Best positive approximation of semihyponormal operators. (Chinese. English summary) **90j:47020**

Wu, Pei Yuan Approximation by invertible and noninvertible operators. **90c:47003**

Yang, Cong Ren Some remarks on perturbations of m-accretive operators in Banach spaces. (Chinese) **90g:47066**

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Zagrebnov, V. A. Perturbations of Gibbs semigroups. **90g:47083**

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Aleksandrov, E. L. *see* **Il'mushkin, G. M., 90g:47028**

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Bekker, M. B. On continuation from a half-axis of a continuous positive definite generalized Toeplitz kernel. (Russian. English summary) **90h:47031**

Binding, Paul A canonical form for selfadjoint pencils in Hilbert space. **90i:47014**

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Derkach, V. A. (*with* Malamud, M. M.) Some classes of analytic operator-valued functions with a nonnegative imaginary part. (Russian. English summary) **90f:47016**

Gohberg, I. (*with* Kaashoek, M. A.; Lancaster, Peter) General theory of regular matrix polynomials and band Toeplitz operators. **90a:47033**

— (*with* Kaashoek, M. A.; Woerdeman, H. J.) The band method for positive and strictly contractive extension problems: an alternative version and new applications. **90c:47022**

Il'mushkin, G. M. (*with* Aleksandrov, E. L.) Solutions of an operator power moment problem. (Russian) **90g:47028**

Kaashoek, M. A. *see* **Gohberg, I.; et al., 90a:47033** *and* **90c:47022**

Katsnel'son, V. È. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) **90k:47030**

Kon, B. A. Factorization of piecewise valued matrix functions and its applications. **90a:47034**

Kovalishina, I. V. Theory of a multiple j-elementary matrix-function with a pole on the boundary of the unit disk. (Russian) **90a:47035**

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Makin, R. S. Completeness of the root vectors of a problem of reactor kinetics in a diffusio approximation. (Russian) **90a:47036**

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Mereutsa, I. V. On the invertibility of the Vandermonde operator. (Russian) **90c:47023**

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Nursultanov, E. D. Some properties of roots of a weakly hyperbolic pencil of operators. **90k:47031**

Ol'shevskiĭ, V. R. Semistability of the dimension of the linear hull of eigen- and associated vectors of a holomorphic operator function. (Russian) **90a:47037**

Pivovarchik, V. N. Eigenvalues of a quadratic operator pencil. **90f:47018**

— The spectrum of quadratic operator pencils in the right half-plane. (Russian) **90i:47015**

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Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. **90i:47016**

Radzievskiĭ, G. V. Multiple minimality of root vectors of a polynomial operator pencil that is perturbed by an operator function $S(\lambda)$, with $S(\infty)=0$, that is analytic outside a disk. **90a:47038**

— Completeness of derivative chains of polynomial pencils of operators of odd order. **90e:47014**

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Rovnyak, James Operator-valued analytic functions of constant norm. **90f:47019**

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— (*with* Pliev, V. T.) Compact perturbations of strongly damped operator pencils. **90i:47017**

Spitkovskiĭ, I. M. Factorization of almost-periodic matrix functions. **90k:47033**

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Almamedov, M. S. The spectral structure of selfadjoint multiparameter problems. **90k:47037**

Alpay, Daniel (*with* Gohberg, I.) On orthogonal matrix polynomials. (*see* **90k:41001**)

— (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**

Antonevich, A. B. Conditions for boundedness and the norm of the operator of inner superposition in a space of vector functions. **90d:47031**

Ball, Joseph A. (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**

— (*with* Cohen, Nir; Ran, A. C. M.) Inverse spectral problems for regular improper rational matrix functions. **90m:47005**

Beelen, T. (*with* Van Dooren, P.) A pencil approach for embedding a polynomial matrix into a unimodular matrix. **90b:15008**

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Belyi, V. A. (*with* Khazanov, V. B.; Kublanovskaya, V. N.) Spectral problems for matrix pencils. Methods and algorithms. III. **90k:15007**

Ben-Artzi, A. (*with* Gohberg, I.) Extension of a theorem of M. G. Kreĭn on orthogonal polynomials for the nonstationary case. (*see* **90k:41001**)

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Constantinescu, T. Operator Schur algorithm and associated functions. **90a:47018**

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Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (*see* **90k:41001**)

— ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**

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Fritzsche, Bernd (*with* Kirstein, Bernd) A Schur type matrix extension problem. II. **90a:15025**

— (*with* Kirstein, Bernd) On generalized Nehari problems. **90a:15027**

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Georgiou, Tryphon T. (*with* Khargonekar, Pramod P.) Spectral factorization of matrix-valued functions using interpolation theory. **90d:93038**

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— (*with* Kaashoek, M. A.; Ran, A. C. M.) Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization. **90m:47003**

— (*with* Kaashoek, M. A.) Regular rational matrix functions with prescribed pole and zero structure. **90m:47004**

— (*with* Rubinstein, Sorin) Proper contractions and their unitary minimal completions. **90m:47007**

— *see also* **Ball, Joseph A.; et al., 90m:47002; Alpay, Daniel, 90m:47006; (90k:41001); Ben-Artzi, A., (90k:41001)** *and* **Topics in interpolation theory of rational matrix-valued functions, 90m:47001**

Kaashoek, M. A. *see* **Gohberg, I.; et al., 90m:47003** *and* **90m:47004**

Karlovich, Yu. I. (*with* Spitkovskiĭ, I. M.) Factorization of almost periodic matrix functions and the Noether theory of certain classes of equations of convolution type. **90f:47034**

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— (*with* Kublanovskaya, V. N.) Spectral problems for matrix pencils. Methods and algorithms. II. **90h:15018**

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Mirzoev, S. S. Generalized solutions of boundary value problems for operator-differential equations. (Russian) **90e:34108**

Najman, B. The Newton diagram method and the perturbation of eigenvalues. **90m:15015**

Ran, A. C. M. (*with* Rodman, Leiba) Semidefinite perturbations of analytic Hermitian matrix functions. **90k:15003**

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Shkalikov, A. A. Elliptic equations in a Hilbert space and related spectral problems. (Russian. English summary) **90g:47090**

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— (*with* Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,\rho}$ and some of its applications. **90k:47057**

— *see also* **Karlovich, Yu. I., 90f:47034**

Sultanaev, Ya. T. The asymptotics of the spectrum of some pencils of differential operators. (Russian) **90g:47089**

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— Boundary value problems for a class of integro-differential equations and related spectral problems. **90b:45023**

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47A60 Functional calculus

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Fujii, Junichi Characterizing the geometric operator mean by the interpolation theory. **90a:47039**

Furuta, Takayuki $A \geq B \geq 0$ ensures $(BA^2B)^{1/2} \geq B^2$—solution to a conjecture on operator inequalities. **90a:47040**

— Easy proofs of some operator inequalities. (Japanese) (Not in MR)

— $A \geq B \geq 0$ ensures $B^rA^pB^r \geq (B^rA^{p-s}B^r)^{(p+2r)/(p-s+2r)}$ for $1 \geq 2r \geq 0$, $p \geq s \geq 0$ with $p + 2r \geq 2s$. **90h:47032**

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Kantorovitz, Shmuel Volterra systems of operators. **90a:47041**

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— Inequalities for powers of operators. (Russian) **90m:47024**

Kwong, Man Kam Some results on matrix monotone functions. **90e:47016**

Martínez Carracedo, Celso (*with* Sanz Alix, Miguel A.; Calvo, V.) Fractional powers of nonnegative operators in Fréchet spaces. **90b:47027**

— (*with* Sanz Alix, Miguel A.) nth roots of a nonnegative operator: conditions for uniqueness. **90h:47033**

Mazure, Marie-Laurence Shorted operators through convex analysis. **90i:47018**

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Curtis, Philip C., Jr. (*with* Neumann, Michael M.) Nonanalytic functional calculi and spectral maximal spaces. **90h:47059**

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— (*with* Kamei, Eizaburo) Relative operator entropy in noncommutative information theory. **90m:46110**

— (*with* Seo, Yûki) Jones' index and the relative operator entropy. **90m:46111**

— (*with* Kamei, Eizaburo) Uhlmann's interpolational method for operator means. **90m:46112**

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— *see also* **Fujii, Junichi, 90m:46110** *and* **90m:46112**

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Krupa, Andrzej (*with* Zawisza, Bogdan) Ultrapowers of unbounded selfadjoint operators. **90i:47026**

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47A65 Structure theory

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— (*with* Exner, George; Pearcy, Carl) On the structure of contraction operators. III. **90h:47034**
— *see also* **Brown, S. W.; et al., 90b:47030b**
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Prunaru, B. On the structure of contraction operators with dominating spectrum. **90a:47045**
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Lang, Patrick (*with* Locker, John) Spectral decomposition of a Hilbert space by a Fredholm operator. **90c:47017**
Locker, John *see* **Lang, Patrick, 90c:47017**
Zarouf, F. Sur les opérateurs sous-normaux dans la classe A. [On subnormal operators in the class A] **90a:47066**

47A66 (Non)quasitriangular, (non)quasidiagonal operators

Items with secondary classifications in 47A66

Herrero, Domingo A. Most quasidiagonal operators are not block-diagonal. **90b:47031**
— The set of finite operators is nowhere dense. **90k:47041**
Murphy, G. J. Diagonality in C^*-algebras. **90c:46070**

47A67 Representation theory

Items with secondary classifications in 47A67

Arveson, William Continuous analogues of Fock space. III. Singular states. **90m:46118**
Bombal, Fernando (*with* Porras, B.) Strictly singular and strictly cosingular operators on $C(K, E)$. **90i:47032**
Chevreau, B. (*with* Galé, José E.) Banach algebra techniques and extensions of operator-valued representations. **90j:47014**
Choy, Stephen T. L. Positive operators and algebras of dominated measures. **90g:47055**
Galé, José E. *see* **Chevreau, B., 90j:47014**
Horák, Karel (*with* Müller, Vladimir) Functional model for commuting isometries. **90d:47013**
Kaufman, Robert P. (*with* Petrakis, Minos; Riddle, Lawrence H.; Uhl, J. Jerry, Jr.) Nearly representable operators. **90d:47032**
Müller, Vladimir *see* **Horák, Karel, 90d:47013**
Petrakis, Minos *see* **Kaufman, Robert P.; et al., 90d:47032**
Porras, B. *see* **Bombal, Fernando, 90i:47032**
Riddle, Lawrence H. *see* **Kaufman, Robert P.; et al., 90d:47032**
Uhl, J. Jerry, Jr. *see* **Kaufman, Robert P.; et al., 90d:47032**
Van hamme, J. Closed densely defined linear operators in Hilbert spaces and their generalized inverses. **90a:47005**

47A68 Factorization theory

Daughtry, John (*with* Johns, Ronald) Arveson nests and operator factorization along commutative subspace lattices. **90c:47026**
Dỗ Công Khanh Regular factorization. (Russian. English summary) **90c:47027**
Gohberg, I. (*with* Goldberg, Seymour) Factorizations of semiseparable operators along continuous chains of projections. **90a:47047**
Goldberg, Seymour *see* **Gohberg, I., 90a:47047**
Johns, Ronald *see* **Daughtry, John, 90c:47026**
Lebre, A. B. Factorization in the Wiener algebra of a class of 2 × 2 matrix functions. **90m:47030**
Litvinchuk, G. S. (*with* Spitkovskiĭ, I. M.) ★ Factorization of measurable matrix function **90g:47030**
(Luderer, B.) *see* **Litvinchuk, G. S., 90g:47030**
(Silbermann, Bernd) *see* **Litvinchuk, G. S., 90g:47030**
Spitkovskiĭ, I. M. Factorization of Hermitian matrix functions and classification of shifts a space with an indefinite metric. (Russian) **90k:47036**
— *see also* **Litvinchuk, G. S., 90g:47030**
Wu, Pei Yuan The operator factorization problems. **90g:47031**
Zhang, Gen Kai Wiener-Hopf operators and factorization of operators. (Chinese. English summary) **90b:47032**

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Arabadzhyan, L. G. Factorization of conservative Wiener-Hopf integral operators. **90g:47091**
Beitia, Ma. Asunción (*with* Zaballa, Ion) Factorization of the matrix polynomial $A(\lambda) = A_0\lambda^l + A_1\lambda^{l-1} + \cdots + A_{l-1}\lambda + A_l$. **90g:15023**
de Branges, Louis Kreĭn spaces of analytic functions. **90c:47060**
Chen, Tongwen (*with* Francis, Bruce A.) Spectral and inner-outer factorizations of ration matrices. **90d:30098**
Curtain, Ruth F. (*with* Ran, A. C. M.) Explicit formulas for Hankel norm approximation of infinite-dimensional systems. **90e:93054**
Daughtry, John Conditional expectations and invariant subspaces. **90k:47095**
Francis, Bruce A. *see* **Chen, Tongwen, 90d:30098**
Georgiou, Tryphon T. (*with* Khargonekar, Pramod P.) Spectral factorization of matrix-valued functions using interpolation theory. **90d:93038**
Gohberg, I. (*with* Lerer, L.) Matrix generalizations of M. G. Kreĭn theorems on orthogon polynomials. (*see* **90k:41001**)
— (*with* Kaashoek, M. A.; Lancaster, Peter) General theory of regular matrix polynomials and band Toeplitz operators. **90a:47033**
Jarchow, Hans Factoring absolutely summing operators through Hilbert-Schmidt operato **90m:46026**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 90a:47033**
Karlovich, Yu. I. (*with* Spitkovskiĭ, I. M.) Factorization of almost periodic matrix functio and the Noether theory of certain classes of equations of convolution type. **90f:47034**
Khargonekar, Pramod P. *see* **Georgiou, Tryphon T., 90d:93038**
Kon, B. A. Factorization of piecewise valued matrix functions and its applications. **90a:47034**
Lancaster, Peter *see* **Gohberg, I.; et al., 90a:47033**
Lerer, L. *see* **Gohberg, I., (90k:41001)**
Matter, Urs Factoring through interpolation spaces and super-reflexive Banach spaces. **90j:46065**
Mereutsa, I. V. On the invertibility of the Vandermonde operator. (Russian) **90c:47023**
Pitts, David R. Factorization problems for nests: factorization methods and characterizations of the universal factorization property. **90a:46160**
Poletaev, G. S. Equations and systems of a certain type in rings with factorization pairs. (Russian) **90c:45006**
Popescu, Gelu Multi-analytic operators and some factorization theorems. **90k:47019**
Power, Stephen Analysis in nest algebras. **90b:47079**
Ran, A. C. M. *see* **Curtain, Ruth F., 90e:93054**

Rodman, Leiba ★ An introduction to operator polynomials. **90k:47032**
Spitkovskiĭ, I. M. Factorization of almost-periodic matrix functions. **90k:47033**
— (*with* Tashbaev, A. M.) Factorization of piecewise constant matrix functions with 3 points of discontinuity in the classes $L_{p,\rho}$ and some of its applications. **90k:47057**
— *see also* **Karlovich, Yu. I., 90f:47034**
Tashbaev, A. M. *see* **Spitkovskiĭ, I. M., 90k:47057**
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47A70 Eigenfunction expansions, rigged Hilbert spaces; eigenvalue problems in general [see also 49Gxx]

Allakhverdiev, Dzh. È. (*with* Dzhabarzade, R. M.) A multiparameter system of operators that is nonlinearly dependent on the spectral parameter. **90g:47032**
— (*with* Dzhabarzade, R. M.) The spectrum of a multiparameter system and a spectral theorem. **90g:47033**
Almamedov, M. S. The spectral structure of selfadjoint multiparameter problems. **90k:47037**
Bekker, M. B. An integral representation of Hermitian-positive matrix kernels of a special structure. **90f:47022**
Binding, Paul (*with* Browne, Patrick J.) Classification of eigentuples for uniformly elliptic multiparameter problems. **90g:47034**
— Multiparameter root vectors. **90a:47048**
Browne, Patrick J. Two-parameter eigencurve theory. **90k:47038**
— *see also* **Binding, Paul, 90g:47034**
Dolzhenko, I. V. Completeness of the system of eigenvectors of a linear operator in some locally convex spaces. (Russian) **90h:47036**
Dzhabarzade, R. M. *see* **Allakhverdiev, Dzh. È., 90g:47032** *and* **90g:47033**
Fan, Ky A remark on orthogonality of eigenvectors. **90f:47023**
Fedik, M. M. A property of rigged Hilbert spaces. (Ukrainian. Russian summary) (Not in MR)
Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. **90f:47024**
Kulkarni, Rekha P. (*with* Limaye, Balmohan V.) On the error estimates for the Rayleigh-Schrödinger series and the Kato-Rellich perturbation series. **90a:47049**
Limaye, Balmohan V. (*with* Nair, M. Thamban) Localization results for eigenelements. **90a:47050**
— ★ Spectral perturbation and approximation with numerical experiments. **90a:47051**
— (*with* Nair, M. Thamban) Localization of a simple eigenvalue and a corresponding eigenvector. **90d:47020**
— *see also* **Kulkarni, Rekha P., 90a:47049**
Mirzoev, G. G. Separation of the spectral parameters of a multiparameter eigenvalue problem. (Russian) **90e:47017**
Nagel, Bengt Introduction to rigged Hilbert spaces (RHS). (*see* **90i:81006**)
Nair, M. Thamban *see* **Limaye, Balmohan V., 90a:47050** *and* **90d:47020**
Ragimov, M. B. On multiparameter spectral theory. (Russian) **90b:47033**
Sakhnovich, L. A. Asymptotics of spectral functions of an S-colligation. **90f:47025**
Verma, Ram U. Multiparameter spectral theory of a separating operator system. (Not in MR)
Veselov, V. F. Bases of eigensubspaces of a nondissipative operator, and the characteristic function. **90a:47052**
Volkmer, Hans ★ Multiparameter eigenvalue problems and expansion theorems. **90d:47021**
Zabel, A. M. Integral representation of generalized invariant reflection positive matrix kernel. **90i:47019**

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Akopyan, G. S. (*with* Aleksandryan, R. A.) Construction of generalized eigenfunctions for a linear pencil of differential operators in a space of vector functions. (Russian) **90m:47067**
Aleksandryan, R. A. *see* **Akopyan, G. S., 90m:47067**
Ali, H. A. *see* **Okb El-Bab, A. S.; et al., 90h:43006**
Binding, Paul (*with* Browne, Patrick J.) Eigencurves for two-parameter selfadjoint ordinary differential equations of even order. **90e:47038**
Biyarov, B. N. Volterra boundary value problems for the Sturm-Liouville equation. (Russian. Kazakh summary) **90e:47039**
Božinov, Nikolaĭ S. A necessary and sufficient condition for existence of formal expansion on eigen and associated functions of the nonlocal Sturm-Liouville operator and sufficient conditions for completeness of its root subspaces. **90m:47061**
Browne, Patrick J. *see* **Binding, Paul, 90e:47038**
D′yakonov, E. G. (*with* Knyazev, Andreĭ Vladimirovich) ★ Об одном итерационном методе нахождения младших собственных чисел. (Russian) [An iterative method for finding the smallest eigenvalues]
Faierman, M. (*with* Roach, G. F.) Full and partial-range eigenfunction expansions for a multiparameter system of differential equations. **90f:34044**
— (*with* Roach, G. F.) Eigenfunction expansions for a two-parameter system of differential equations. **90d:34050**
Farid, F. O. (*with* Lancaster, Peter) Spectral properties of diagonally dominant infinite matrices. I. **90h:47052**
Gilliam, David (*with* Schulenberger, J. R.; Lund, John R.) Spectral representation of the Laplace and Stieltjes transforms. (Portuguese summary) **90e:47021**
Karakhanyan, M. I. Conditions for the completeness of a system of eigenvectors of a generalized normal operator. (Russian. English and Armenian summaries) **90f:22004**
Karl, Johann ★ Nichtlineare Umlaufseigenwertprobleme bei Differentialgleichungen im Komplexen. (German) [Nonlinear boundary eigenvalue problems for complex differential equations] **90j:34008**
Knyazev, Andreĭ Vladimirovich *see* **D′yakonov, E. G.**, (Not in MR)
Kruszyński, Paweł Ring characterization of scalar product spaces and Gel′fand triples. **90f:46039**
Lancaster, Peter *see* **Farid, F. O., 90h:47052**
de Lange, O. L. An operator analysis for the Schrödinger, Klein-Gordon, and Dirac equations with a Coulomb potential. **90c:81035**
Larionov, E. A. Asymptotics of eigenvalues under weak perturbation of normal operators. **90k:47026**
Lei, Peng The eigenvalues of some integral matrices and their applications in transport theory. (Chinese. English summary) **90k:82110**
Lifshits, A. E. ★ Magnetohydrodynamics and spectral theory. **90k:76097**
Limaye, Balmohan V. (*with* Nair, M. Thamban) On the accuracy of the Rayleigh-Schrödinger approximations. **90g:47024**
Lund, John R. *see* **Gilliam, David; et al., 90e:47021**
Marino, Giuseppe Iper-dual systems and Hilbert triplets. **90i:46046**
Mertins, Ulrich Zur Herleitung von Einschliessungssätzen für Eigenwerte. [On the derivation of inclusion theorems for eigenvalues] **90i:65102**
Möller, Manfred Equivalence of differential-boundary eigenvalue operators and their characteristic matrices. **90i:34027**
Nair, M. Thamban A note on Rayleigh-Schroedinger series. **90g:47025**
— *see also* **Limaye, Balmohan V., 90g:47024**
Okb El-Bab, A. S. (*with* Zabel, A. M.; Ali, H. A.) Semi-direct product invariant kernels. **90h:43006**
Pyatkov, S. G. Some properties of eigenfunctions of linear pencils. **90i:47016**
Roach, G. F. *see* **Faierman, M., 90d:34050** *and* **90f:34044**
Schulenberger, J. R. *see* **Gilliam, David; et al., 90e:47021**
Sobirov, I. The existence of an nth eigenvalue of integral operators with nonnegative kernels. (Russian. Tajiki summary) **90j:47070**
Young, Nicholas J. ★ An introduction to Hilbert space. **90e:46001**
Zabel, A. M. *see* **Okb El-Bab, A. S.; et al., 90h:43006**
Žitňan, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. **90d:35223**

47A99 None of the above, but in this section

Andruchow, Esteban (*with* Stojanoff, Demetrio) Nilpotent operators and systems of projections. **90k:47039**
— (*with* Stojanoff, Demetrio) Differentiable structure of similarity orbits. **90k:47040**
Chen, Jin Jian *see* **Fang, Jie, 90h:47037**
Ding, Guang Gui The approximation problem of almost isometric operators by isometric operators. **90g:47035**
Fang, Jie (*with* Chen, Jin Jian) On some properties of approximate power class (N) operators. (Chinese. English summary) **90h:47037**
Fujii, Junichi (*with* Nakamura, Masahiro; Seo, Yûki) Convergence of sequences defined by operator means. **90c:47028**
Herrero, Domingo A. The set of finite operators is nowhere dense. **90k:47041**
Megan, Mihail (*with* Preda, P.) Admissibility and dichotomies for linear discrete-time systems in Banach spaces. **90m:47031**
— *see also* **Preda, P., 90m:47032**
Melikhov, S. N. Matrix representation of some classes of linear operators. (Russian) (*see* **90d:00046**)
Munch, Niels Juul Compact causal data interpolation. **90c:47029**
Nakamura, Masahiro *see* **Fujii, Junichi; et al., 90c:47028**
Preda, P. (*with* Megan, Mihail) Dichotomies and Lyapunov functions for discrete-time systems in Hilbert spaces. **90m:47032**
— *see also* **Megan, Mihail, 90m:47031**
Rolewicz, S. On unconditional convergence of linear operators. **90c:47030**
Seo, Yûki *see* **Fujii, Junichi; et al., 90c:47028**
Shen, You Xiang On class (M) quasicollectively compact operator sequences. (Chinese. English summary) **90k:47042**
Shevchik, V. V. Not strictly singular operators with nonclosed range. **90j:47017**
Stojanoff, Demetrio *see* **Andruchow, Esteban, 90k:47039** *and* **90k:47040**
Wei, Yong On uniform convergence of linear operators on the probabilistic normed space. **90i:47020**

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Ahués, Mario (*with* Carreño, Gloria; Telias, Mauricio) Iterative refinement for defective subspaces of differential operators. **90f:65079**
Arestov, V. V. Optimal recovery of operators and related problems. (Russian) **90g:41048**
Avishai, Y. *see* **Livšic, M. S., 90m:58089**
Bultheel, Adhemar *see* **Van Barel, Marc, 90e:93017**
Carreño, Gloria *see* **Ahués, Mario; et al., 90f:65079**
Davidson, Kenneth R. Finite dimension problems in operator theory. **90m:47035**
Dilworth, S. J. Involutions on Banach spaces and reflexivity. **90f:46024**
Doyle, John C. *see* **Glover, Keith, 90k:93020**
Foiaş, Ciprian (*with* Tannenbaum, Allen) On the parametrization of the suboptimal solutions in generalized interpolation. **90k:30070**
Glover, Keith (*with* Doyle, John C.) A state space approach to H_∞ optimal control. **90k:93020**
— (*with* McFarlane, Duncan) Robust stabilization of normalized coprime factor plant descriptions with H_∞-bounded uncertainty. **90f:93052**
Grinberg, V. S. Wielandt-type estimates for primitive mappings of partially ordered sets. **90k:06007**
Hopenwasser, Alan Hilbert-Schmidt interpolation in CSL-algebras. **90m:47057**
Hou, Jin Chuan Rank-preserving linear maps on $B(X)$. **90k:47100**
Jaffe, Arthur (*with* Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. **90k:81104**
Kubrusly, C. S. A note on the Lyapunov equation for discrete linear systems in Hilbert space. **90i:39003**
Lesniewski, Andrzej *see* **Jaffe, Arthur, 90k:81104**
Livšic, M. S. (*with* Avishai, Y.) A study of solitonic combinations based on the theory of commuting nonselfadjoint operators. **90m:58089**
Matsokin, A. M. A convergence criterion for the Schwartz method in a Hilbert space. (Russian) **90b:65107**
McFarlane, Duncan *see* **Glover, Keith, 90f:93052**

Mishra, Shiva Kumar Some contributions to the theory of strongly and compactly nuclear trilinear forms. **90g:46067**

Motte, David L. The numerical computation of the minimal projection. **90d:65112**

Nisipeanu, Marin Une généralisation d'un théorème de Orlicz. [A generalization of a theorem of Orlicz] **90g:46019**

Pap, Endre Weak convergence in a K-space. **90b:46008**

Paulsen, Vern (*with* Power, Stephen; Smith, R. R.) Schur products and matrix completions. **90j:46051**

Power, Stephen *see* **Paulsen, Vern; et al., 90j:46051**

Ran, A. C. M. State space formulas for a model matching problem. **90c:93026**

Smith, R. R. *see* **Paulsen, Vern; et al., 90j:46051**

Tannenbaum, Allen *see* **Foiaş, Ciprian, 90k:30070**

Telias, Mauricio *see* **Ahués, Mario; et al., 90f:65079**

Van Barel, Marc (*with* Bultheel, Adhemar) A minimal partial realization algorithm for data with relative errors. **90e:93017**

Verma, Madanpal S. Synthesis of H^∞-optimal linear feedback systems. **90b:93028**

Voiculescu, Dan Property T and approximation of operators. **90m:46101**

47Bxx Single linear operators: special classes of operators

47B05 Compact operators, Riesz operators

Bhatia, Rajendra (*with* Kittaneh, Fuad) On the singular values of a product of operators. **90m:47033**

Gatto, Raoul (*with* Sartori, G.) Biunitarily diagonalizable families of compact linear operators. **90g:47036**

Huang, Lin *see* **Zhao, Yong Dong, 90h:47038**

Kittaneh, Fuad *see* **Bhatia, Rajendra, 90m:47033**

Sartori, G. *see* **Gatto, Raoul, 90g:47036**

Swartz, Charles Unconditionally convergent series of compact operators. **90g:47037**

Tan, Ying Cai Locally sequentially compact (normal) operators and locally sequentially compact (normal) convergence. (Chinese) **90g:47038**

Volkmann, Peter (*with* Wacker, Hans-Dieter) Certaines propriétés des opérateurs de Riesz. [Some properties of Riesz operators] **90i:47021**

Wacker, Hans-Dieter *see* **Volkmann, Peter, 90i:47021**

Zhao, Yong Dong (*with* Huang, Lin) The singular value decomposition of a compact bounded linear operator on l^2 space, and its application. (Chinese. English summary) **90h:47038**

Zhong, Huai Jie Some conditions for the West decomposition of Riesz operators. (Chinese. English summary) **90m:47034**

— Riesz operators on the spaces $L_p(\mu)$ have West decompositions. (Chinese. English summary) **90c:47031**

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Aguayo, José (*with* Sánchez H., José A.) Weakly compact operators and the strict topologies. **90g:47053**

Aiena, Pietro On Riesz and inessential operators. **90h:47025**

Auchmuty, Giles Variational principles for eigenvalues of compact operators. **90j:49034**

Bertero, M. (*with* Boccacci, P.) Computation of the singular system for a class of integral operators related to data inversion in confocal microscopy. **90k:45011**

Boccacci, P. *see* **Bertero, M., 90k:45011**

Bolla, Marianna Singular values decomposition of linear operators on Hilbert spaces (the applications of the optimal features of the decomposition and numerical methods for the decomposition). (Hungarian. English summary) **90h:47002**

Bombal, Fernando Operators in vector sequence spaces. (Spanish. English summary) **90a:47073**

Cho, Chong-Man Best approximation by compact operators. **90i:41041**

Cross, R. W. Properties of some norm related functions of unbounded linear operators. **90c:47010**

Dharmadhikari, N. S. *see* **Singh, Raj Kishor, 90c:47057**

Drewnowski, L. Compact operators on Musielak-Orlicz spaces. **90b:47050**

Duggal, B. P. A remark on the essential spectra of quasi-similar dominant contractions. **90g:47044**

Feldman, William (*with* Kranz, P.; Porter, James F.) Dominated compact positive operators. **90k:47073**

— Compact weighted composition operators on Banach lattices. **90f:47049**

Figura, Bogdan The spectra of certain class of composition operators. (Polish summary) **90j:47030**

Holub, James R. Daugavet's equation and ideals of operators on C[0, 1]. **90g:47057**

Ishihara, Hajime Constructive compact linear mappings. **90k:46171**

Jahn, Karsten A note on compact Lamperti operators. **90m:47053a**

— Errata: "A note on compact Lamperti operators". **90m:47053b**

Jódar, Lucas A note on the spectral decomposition of bounded operators. (Spanish. English summary) **90b:47058**

Kalra, Savita (*with* Singh, Raj Kishor; Vasudeva, H. L.) Composition operators on the functional Banach space $C^1([0,1])$. **90b:47053**

Kamowitz, Herbert (*with* Scheinberg, Stephen; Wortman, Dennis) Compact endomorphisms of Banach algebras. II. **90b:46107**

Karapetyants, N. K. Convolution operators in Lipschitz classes. (Russian. English and Armenian summaries) **90j:47032**

Kranz, P. *see* **Feldman, William; et al., 90k:47073**

Mathieu, Martin Elementary operators on prime C^*-algebras. II. **90h:46093**

Mishra, Akshaya Kumar *see* **Pattanayak, S.; et al., 90g:47059**

Mohapatra, C. K. *see* **Pattanayak, S.; et al., 90g:47059**

Ó Searcóid, Mícheál A contribution to the solution of the compact correction problem for operators on a Banach space. **90h:47027**

Pattanayak, S. (*with* Mohapatra, C. K.; Mishra, Akshaya Kumar) A new class of composition operators. **90g:47059**

Peng, Li Zhong (*with* Qian, Tao) A kind of multilinear operator and the Schatten-von Neumann classes. **90h:47067**

Porter, James F. *see* **Feldman, William; et al., 90k:47073**

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Ricker, Werner Vector measures with values in the compact operators. **90f:28007**

Sánchez H., José A. *see* **Aguayo, José, 90g:47053**

Scheinberg, Stephen *see* **Kamowitz, Herbert; et al., 90b:46107**

Sersouri, A. Opérateurs diagonaux dans les espaces à bases. [Diagonal operators in spaces with basis] **90j:47053**

Shapiro, Joel H. (*with* Sundberg, Carl) Compact composition operators on L^1. **90d:47035**

Shevchik, V. V. Dense embedding operators in Banach spaces. (Russian. English and Georgian summaries) **90m:46125**

Singh, Raj Kishor (*with* Dharmadhikari, N. S.) Compact and Fredholm composite multiplication operators. **90c:47057**

— *see also* **Kalra, Savita; et al., 90b:47053**

Sun, Chuan Kun The δ-numbers of elementary operators $\Gamma\colon T \to ATB$. (Chinese) **90h:47010**

Sundberg, Carl *see* **Shapiro, Joel H., 90d:47035**

Ülger, Ali Arens regularity of $K(X)$. **90b:47081**

Ustinov, G. M. Faces of the unit sphere of the space of compact operators. (Russian) **90m:47055**

Vasudeva, H. L. *see* **Kalra, Savita; et al., 90b:47053**

Wortman, Dennis *see* **Kamowitz, Herbert; et al., 90b:46107**

Zhang, Haitao Fredholm theory for morphisms in quotient Banach spaces. **90g:47021**

Zhao, Zhen Fan Linear operators in M-PN spaces. (Chinese. English summary) **90g:47084**

Zheng, De Chao Toeplitz operators and Hankel operators. **90b:47044**

Zhong, Huai Jie Operator ideals contained in the class of Riesz operators. (Chinese. Englis summary) **90k:47099**

47B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, p-summing operators, etc.

Baĭdel′dinov, B. L. (*with* Otelbaev, M.) Gaussian measures and approximation characteristics of operators. (Russian. Kazakh summary) **90b:47034**

Blasco De La Cruz, Oscar Positive p-summing operators, vector measures and tensor products. **90f:47026**

Bourgain, J. (*with* Pajor, Alain; Szarek, S. J.; Tomczak-Jaegermann, Nicole) On the dualit problem for entropy numbers of operators. **90k:47043**

Castillo, Jesús M. F. Grothendieck's inequality. (Spanish) **90c:47033**

Cobos, Fernando On a theorem of Ky Fan. **90a:47053**

— (*with* Kühn, Thomas) On a conjecture of Barry Simon on trace ideals. **90h:47039**

— (*with* Resina, Ivam) Representation theorems for some operator ideals. **90c:47032**

Deeb, W. *see* **Khalil, Roshdi, 90d:47022**

Defant, Martin On the vector-valued Hilbert transform. **90g:47039**

Feng, Wen Ying (*with* Ji, Guo Xing) A counterexample in the theory of derivations. **90g:47040**

Gordon, E. I. Nonstandard finite-dimensional analogues of operators in $L_2(\mathbf{R}^n)$. **90a:47054**

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Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, J.) Pfaffians on Hilbert space. **90g:47041**

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— On structure of absolutely summing mappings. (Not in MR)

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— *see also* **Bourgain, J.; et al., 90k:47043**

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Rakočević, Vladimir (*with* Zemánek, Jaroslav) Lower s-numbers and their asymptotic behaviour. **90a:47057**

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Rochberg, Richard (*with* Semmes, Stephen) Nearly weakly orthonormal sequences, singu value estimates, and Calderon-Zygmund operators. **90k:47047**

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Arazy, Jonathan (*with* Fisher, S. D.; Peetre, Jaak) Hankel operators on weighted Bergman spaces. **90a:47067**
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— (*with* Kittaneh, Fuad) On some perturbation inequalities for operators. **90f:47007**
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— *see also* **Carl, Bernd; et al., 90b:47080**
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Maher, P. J. Partially isometric approximation of positive operators. **90c:47038**
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— *see also* **König, Hermann, 90k:46028**
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47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)

Barnes, Bruce A. Operators which satisfy polynomial growth conditions. **90j:47018**
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— Finite dimension problems in operator theory. **90m:47035**
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Kamei, Eizaburo Furuta's inequality via operator mean. **90c:47037**
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Maher, P. J. Partially isometric approximation of positive operators. **90c:47038**
Nussbaum, Roger D. (*with* Cohen, Joel E.) The arithmetic-geometric mean and its generalizations for noncommuting linear operators. **90e:47018**
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— (*with* Dzhabarzade, R. M.) The spectrum of a multiparameter system and a spectral theorem. **90g:47033**
Ando, Tsuyoshi Majorization, doubly stochastic matrices, and comparison of eigenvalues. **90g:15034**
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Fleming, R. J. (*with* Jamison, J. E.) Hermitian operators and isometries on sums of Banach spaces. **90j:47023**
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— $A \geq B \geq 0$ ensures $B^rA^pB^r \geq (B^rA^{p-s}B^r)^{(p+2r)/(p-s+2r)}$ for $1 \geq 2r \geq 0$, $p \geq s \geq 0$ with $p+2r \geq 2s$. **90h:47032**
— An elementary proof of an order preserving inequality. **90g:47029**
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Lin, Pei-Kee The isometries of $L^2(\Omega, X)$. **90k:46087**
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Malamud, M. M. Extensions of Hermitian sectorial operators and dual pairs of contractions. **90k:47016**
Máté, Attila (*with* Nevai, Paul) Eigenvalues of finite band-width Hilbert space operators and their application to orthogonal polynomials. **90k:47007**
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47B20 Subnormal operators, hyponormal operators, etc.

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Bercovici, H. (*with* Conway, John B.) A note on the algebra generated by a subnormal operator. **90a:47058**
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Conway, John B. (*with* Szymański, Wacław) Linear combinations of hyponormal operators. **90a:47059**
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Duggal, B. P. A remark on the essential spectra of quasi-similar dominant contractions. **90g:47044**
— On generalised Putnam-Fuglede theorems. **90g:47045**
Fan, Peng A note on local spectra and multicylic hyponormal operators. **90a:47060**
Găvruţa, P. On generalized Hausdorff operators. **90g:47046**
Herrero, Domingo A. Spectral pictures of hyponormal bilateral operator weighted shifts. **90k:47050**
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— (*with* Wang, Yong Ming) k-quasihyponormal operators on the Hilbert-Schmidt class. (Chinese. English summary) **90d:47025**
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Xia, Dao Xing Errata: "Analytic theory of subnormal operators" [Integral Equations Operator Theory **10** (1987), no. 6, 880–903; MR 89e:47035]. **90i:47025**
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Yang, Li Ming Equality of essential spectra of quasisimilar subnormal operators. (Chinese. English summary) **90g:47047**
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Zarouf, F. Sur les opérateurs sous-normaux dans la classe A. [On subnormal operators in th class A] **90a:47066**
Zhang, Gen Kai Some notes on subnormal and hyponormal operators. (Chinese. English summary) **90j:47021**

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Cowen, Carl C. Hyponormal and subnormal Toeplitz operators. **90j:47022**
— (*with* Kriete, Thomas L., III) Subnormality and composition operators on H^2. **90c:4705**
— (*with* Li, Shao Kuan) Hilbert space operators that are subnormal in the Kreĭn space sense **90b:47063**
Curto, Raúl E. Applications of several complex variables to multiparameter spectral theory. **90d:47007**
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Dudziak, James A weak-star rational approximation problem connected with subnormal operators. **90k:30072**
Duggal, B. P. The operator inequality $P \leq A^*PA$. **90k:47048**
Feng, Wen Ying (*with* Ji, Guo Xing) A counterexample in the theory of derivations. **90g:47040**
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47B25 Symmetric and selfadjoint operators (unbounded)

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47B39 Difference operators [see also 39A70]

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47B40 Spectral operators, decomposable operators, etc.

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Lang, Patrick (*with* Locker, John) Spectral representation of the resolvent of a discrete operator. **90c:47018**

— (*with* Locker, John) Spectral theory of two-point differential operators determined by $-D^2$. I. Spectral properties. **90j:47062**

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— (*with* Vrbová, Pavla) Some remarks on the surjectivity spectrum of linear operators. **90m:47010**

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Meng, Nan Hyponormal weighted shift operators. (Chinese. English summary) **90i:47028**

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47B44 Accretive operators, dissipative operators, etc.

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Petrov, A. M. Spectral projectors of dissipative operators. (Russian) **90b:47059**

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— *see also* **Maksudov, F. G., 90m:47064**

Arlinskiĭ, Yu. M. (*with* Tsekanovskiĭ, È. R.) Quasiselfadjoint contractive extensions of a Hermitian contraction. (Russian) **90b:47014**

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47B47 Commutators, derivations

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Abdessemed, A. (*with* Davies, E. B.) Some commutator estimates in the Schatten classes. **90c:47008**
Batty, Charles J. K. (*with* Robinson, Derek W.) Commutators and generators. **90f:47051**
Davies, E. B. *see* **Abdessemed, A., 90c:47008**
Duggal, B. P. On generalised Putnam-Fuglede theorems. **90g:47045**
Feng, Wen Ying (*with* Ji, Guo Xing) A counterexample in the theory of derivations. **90g:47040**
Ji, Guo Xing *see* **Feng, Wen Ying, 90g:47040**
Karakhanyan, M. I. An asymptotic property of commutators of normal operators in weak, strong and strongest B-module operator topologies. (Russian. English and Armenian summaries) **90k:47049**
Li, Chun^2 Boundedness of paracommutators on Besov spaces. **90b:47054**
Nakazi, Takahiko Complete spectral area estimates and self-commutators. **90a:47064**
Robinson, Derek W. *see* **Batty, Charles J. K., 90f:47051**
Weiss, Gary Classification of certain commutator ideals and the tensor product closure property. **90d:47041**
Xia, Dao Xing On the almost unperturbed Schrödinger pair of operators. **90c:47043**

47B50 Operators on a space with an indefinite metric

Akopyan, R. V. Regularity of the spectral function of a J-unitary, J-dissipative operator. (Russian. English and Armenian summaries) **90b:47060**
Azizov, T. Ya. (*with* Iokhvidov, I. S.) ★ Linear operators in spaces with an indefinite metric. **90j:47042**
— Extension of invariant dual pairs. **90i:47039**
Berg, Christian On the uniqueness of minimal definitizing polynomials for a sequence with finitely many negative squares. **90b:47061**
Borogovac, M. (*with* Langer, Heinz) A characterization of generalized zeros of negative type of matrix functions of the class $N_\kappa^{n\times n}$. **90f:47045**
de Branges, Louis Kreĭn spaces of analytic functions. **90c:47060**
Bruinsma, Piet (*with* Dijksma, Aalt; de Snoo, Henk) Unitary dilations of contractions in Π_κ-spaces. **90b:47062**
Cowen, Carl C. (*with* Li, Shao Kuan) Hilbert space operators that are subnormal in the Kreĭn space sense. **90b:47063**
Ćurgus, Branko Definitizable extensions of positive symmetric operators in a Krein space. **90g:47068**
(Dawson, E. R.) *see* **Azizov, T. Ya., 90j:47042**
Derkach, V. A. Extensions of a Hermitian operator in a Kreĭn space. (Russian. English summary) **90f:47046**
Dijksma, Aalt *see* **Bruinsma, Piet; et al., 90b:47062**
Gheondea, Aurelian Canonical forms of unbounded unitary operators in Kreĭn spaces. **90a:47087**
Iokhvidov, E. I. On the symmetry of the properties of a linear operator and its adjoint. **90a:47088**
Iokhvidov, I. S. *see* **Azizov, T. Ya., 90j:47042**
Langer, Heinz *see* **Borogovac, M., 90f:47045**
Li, Shao Kuan *see* **Cowen, Carl C., 90b:47063**
Li, Wen Ming J-selfadjoint extensions of J-symmetric operators. (Chinese. English summary) **90h:47062**
Nakagami, Yoshiomi (*with* Tomita, Minoru) Triangular matrix representation for selfadjoint operators in Kreĭn spaces. **90b:47064**
— Spectral analysis in Kreĭn spaces. **90a:47089**
Sasvári, Zoltán Definitizability of certain functions and the existence of eigenvectors of unitary operators in Pontrjagin spaces. **90a:47090**
Shtraus, V. A. Functional representation of operators that doubly commute with a selfadjoint operator in a Pontryagin space. **90f:47047**
— The structure of a family of commuting J-selfadjoint operators. (Russian) **90k:47071**
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Tomita, Minoru *see* **Nakagami, Yoshiomi, 90b:47064**
Wu, Jing Bo Generalized dilations of operator sequences to Kreĭn space. **90m:47052**
Yan, Shao Zong Regular contraction operators on Π spaces. (Chinese) **90k:47072**

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Allegretto, W. (*with* Mingarelli, A. B.) Boundary problems of the second order with an indefinite weight-function. **90i:35084**
Alpay, Daniel (*with* Gohberg, I.) Unitary rational matrix functions. **90m:47006**
Ball, Joseph A. Nevanlinna-Pick interpolation: generalizations and applications. **90g:47002**
Ćurgus, Branko (*with* Langer, Heinz) A Kreĭn space approach to symmetric ordinary differential operators with an indefinite weight function. **90j:47060**
Dadashyan, K. Yu. (*with* Khoruzhiĭ, S. S.) Field algebras in quantum theory with indefinite metric. III. The spectrum of the modular operator and the fundamental theorem of Tomita. (Russian. English summary) **90b:46126**
— (*with* Khoruzhiĭ, S. S.) Field algebras in quantum theory with indefinite metric. IV. (Russian. English summary) **90b:46127**
Dym, H. Hermitian block Toeplitz matrices, orthogonal polynomials, reproducing kernel Pontryagin spaces, interpolation and extension. (*see* **90k:41001**)
— ★ J contractive matrix functions, reproducing kernel Hilbert spaces and interpolation. **90g:47003**
Faierman, M. (*with* Roach, G. F.) Full and partial-range eigenfunction expansions for a multiparameter system of differential equations. **90f:34044**
— (*with* Roach, G. F.) Eigenfunction expansions for a two-parameter system of differential equations. **90d:34050**
Freund, Roland Wilhelm (*with* Huckle, T.) On H-contractions and the extension problem for Hermitian block Toeplitz matrices. **90f:15010**
Ganchev, Alexander Christov (*with* Greenberg, William; van der Mee, C. V. M.) A class of linear kinetic equations in a Kreĭn space setting. **90a:47030**
Gel′fand, I. M. (*with* Zakharevich, I. S.) Spectral theory of a pencil of third-order skew-symmetric differential operators on S^1. **90i:47048**
Gohberg, I. *see* **Alpay, Daniel, 90m:47006**
Greenberg, William *see* **Ganchev, Alexander Christov; et al., 90a:47030**
Halanay, Andrei A J-isometric dilation of a continuous semigroup with positive generator. **90f:47054**
Huckle, T. *see* **Freund, Roland Wilhelm, 90f:15010**
Ikramov, Kh. D. A theorem on the diagonalization of a type of Hamiltonian from the point of view of the theory of operators in spaces with an indefinite metric. (Russian) **90j:15022**
Katsnel′son, V. È. A left Blaschke-Potapov product is not necessarily a right Blaschke-Potapov product. (Russian. English summary) **90k:47030**
Khoruzhiĭ, S. S. (*with* Voronin, A. V.) Remarks on mathematical structure of BRST theories. **90k:81102**
— *see also* **Dadashyan, K. Yu., 90b:46126** *and* **90b:46127**
Kovalishina, I. V. Theory of a multiple j-elementary matrix-function with a pole on the boundary of the unit disk. (Russian) **90a:47035**
Landau, H. J. Polynomials orthogonal in an indefinite metric. (*see* **90k:41001**)
Langer, Heinz *see* **Ćurgus, Branko, 90j:47060**
Makin, R. S. Completeness of the root vectors of a problem of reactor kinetics in a diffusion approximation. (Russian) **90a:47036**
van der Mee, C. V. M. *see* **Ganchev, Alexander Christov; et al., 90a:47030**
Mingarelli, A. B. *see* **Allegretto, W., 90i:35084**
Ôta, Schôichi Unbounded nilpotents and idempotents. **90c:47001**
Roach, G. F. *see* **Faierman, M., 90d:34050** *and* **90f:34044**
Rodman, Leiba ★ An introduction to operator polynomials. **90k:47032**
Rovnyak, James Coefficient estimates for Riemann mapping functions. **90f:30030**
Shang, Zai Jiu On J-selfadjoint extensions of J-symmetric ordinary differential operators. **90a:47120**
Shtraus, V. A. A bicyclic selfadjoint algebra in a Kreĭn space that is nonisomorphic to its commutant. **90a:47114**
Spitkovskiĭ, I. M. Factorization of Hermitian matrix functions and classification of shifts in a space with an indefinite metric. (Russian) **90k:47036**
Sun, Shun Hua A Kreĭn space approach to the operator version of corona problem. **90h:47056**
Thill, Marco Exponentially bounded indefinite functions. **90m:43020**
Tong, Yu Sun Reductive algebras on spaces with an indefinite metric. (Chinese. English summary) **90m:47059**
— Generalized wave operators in space with an indefinite metric. **90b:47021**
Voronin, A. V. *see* **Khoruzhiĭ, S. S., 90k:81102**
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47B55 Operators on ordered spaces

Abramovich, Yuri (*with* Arenson, E. L.; Kitover, A. K.) Operators in Banach $C(K)$-modules and their spectral properties. **90a:47091**
Arenson, E. L. *see* **Abramovich, Yuri; et al., 90a:47091**
Bartoszek, Wojciech Asymptotic periodicity of the iterates of positive contractions on Banach lattices. **90c:47061**
Bukhvalov, A. V. Order-bounded operators in vector lattices and spaces of measurable functions. (Russian) **90c:47062**
Burkinshaw, O. Order ideals and ring ideals. (*see* **90h:46002**)
Cherdak, V. B. A class of majorized operators. (Russian) **90h:47063**
Daneţ, Rodica-Mihaela Lattice operators on ordered spaces of vector sequences. **90f:47048**
— The extension of linear operators. III. Extreme points in the set $P_+(T)$. **90c:47063**

— Some consequences of a theorem about the extension of positive linear operators. **90c:47065**
— The extension of positive linear operators. (Romanian. English summary) **90c:47064**
Feldman, William (*with* Kranz, P.; Porter, James F.) Dominated compact positive operators. **90k:47073**
— Operators on Banach lattices and the Radon-Nikodým theorem (abstract). **90k:47074**
— Carleman operators on Banach lattices. **90a:47092**
— Compact weighted composition operators on Banach lattices. **90f:47049**
Förster, K.-H. (*with* Nagy, Béla) On the Collatz-Wielandt numbers and the local spectral radius of a nonnegative operator. **90j:47043**
Hart, D. R. Disjointness preserving operators. (*see* **90h:46002**)
Jahn, Karsten A note on compact Lamperti operators. **90m:47053a**
— Errata: "A note on compact Lamperti operators". **90m:47053b**
Kitover, A. K. Mappings of extremally disconnected compact sets and operators that preserve disjointness. (Russian) **90a:47093**
— *see also* **Abramovich, Yuri; et al., 90a:47091**
Kolesnikov, E. V. Decomposition of a positive operator. **90k:47075**
Kranz, P. *see* **Feldman, William; et al., 90k:47073**
Kutateladze, S. S. Components of positive operators. **90j:47044**
Murakami, Riichirô On the Riesz homomorphism of the composition operator. **90k:47076**
Nagy, Béla *see* **Förster, K.-H., 90j:47043**
Niculescu, Constantin P. Factoring weakly compact operators. (Not in MR)
Piston, Calvin Absolute continuity for positive operators (extended abstract). **90i:47040**
Plazanet, Philippe Un critère de positivité pour des formes quadratiques sur un Banach réflexif. (English summary) [Positivity criterion for quadratic forms on a reflexive Banach space] **90h:47064**
Popovici, Ioan Mircea Extensible oru-compact operators. **90j:47045**
Porter, James F. *see* **Feldman, William; et al., 90k:47073**
Schep, Anton R. A remark on the uniform zero-two law for positive contractions. **90j:47046**
Schmidt, Klaus D. Daugavet's equation and orthomorphisms. **90k:47077**
Şerban-Tofan, Doina Bilinear operators on directed vector spaces. **90g:47069**
— (o)-continuous bilinear operators. (Romanian summary) **90a:47094**
Shamaev, I. I. Decomposition and representation of regular operators. **90g:47070**
Swartz, Charles The Banach-Steinhaus theorem for ordered spaces. **90h:47065**
Tibilov, K. T. The Riesz theorem for majorized operators. (Russian) **90j:47047**
Voicu, Mihai Dissipativity, codissipativity and resolvents on ordered Banach spaces. **90b:47065**
Zaharopol, Radu Uniform monotonicity of norms and the strong "zero-two" law. **90e:47031**

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Abramovich, Yuri Isometries of normed lattices. (Russian) **90k:46042**
Akcoglu, M. A. (*with* Sucheston, L.) A superadditive mean ergodic theorem on Banach lattices. **90j:47005**
Andreu, A. (*with* Mazón, J. M.; Segura de León, S.) On the space of all regular operators from $C(K)$ into $C(K)$. **90b:47077**
Andreu, F. (*with* Mazón, J. M.; Segura de León, S.) A Radon-Nikodým theorem for Riesz space valued measures. **90m:46076**
— (*with* Mazón, J. M.) On the boundary spectrum of dominated C_0-semigroups. **90a:47095**
Bartoszek, Wojciech (*with* Rębowski, Ryszard) On the lattice boundary of Markov operators. **90c:47012**
Blasco De La Cruz, Oscar Positive p-summing operators, vector measures and tensor products. **90f:47026**
Buskes, G. (*with* van Rooij, A.) Hahn-Banach for Riesz homomorphisms. **90g:46011**
Chen, Zi Li On the weak compactness in Banach lattices. **90c:46029**
Dodds, P. G. (*with* Huijsmans, C. B.; de Pagter, Ben) Characterizations of conditional expectation-type operators. **90m:47047**
van Eldik, Peter *see* **Venter, Lucas; et al., 90h:46084**
Grabosch, A. (*with* Nagel, Rainer) Order structure of the semigroup dual: a counterexample. **90c:47067**
Grinberg, Shaul Conservative operators in Riesz spaces and a zero-two law. **90f:47009**
Grobler, J. J. On the functional calculus in Archimedean Riesz spaces with applications to approximation theorems. **90b:46013**
— *see also* **Venter, Lucas; et al., 90h:46084**
Huang, Sen Zhong On operators that are almost isometric on the positive cones of L^p-spaces, $1 < p < +\infty$. **90a:47078**
Huijsmans, C. B. *see* **Dodds, P. G.; et al., 90m:47047**
Kolesnikov, E. V. The components of a majorized operator. (Russian) **90h:46039**
Lavrič, Boris On the modulus of cone absolutely summing operators and vector measures of bounded variation. **90d:47023**
Luschgy, H. Pairwise sufficiency and invariance. **90f:62016**
Luxemburg, W. A. J. The work of Dorothy Maharam on kernel representations of linear operators. **90m:01038**
(Maharam, Dorothy) *see* **Luxemburg, W. A. J., 90m:01038**
Mazón, J. M. *see* **Andreu, F., 90a:47095; Andreu, A.; et al., 90b:47077** *and* **Andreu, F.; et al., 90m:46076**
Mokhtar-Kharroubi, Mustapha Résultats de compacité pour des semi-groupes positifs dans les espaces de Banach réticulés. (English summary) [Compactness results for positive semigroups on Banach lattices] **90c:47071**
Nagel, Rainer *see* **Grabosch, A., 90c:47067**
Ng, Kung Fu Positive semigroups of operators on Banach spaces. **90h:47076**
Niculescu, Constantin P. The centralizer associated to an Alfsen-Effros type order relation. II. **90k:46131**
Nishishiraho, Toshihiko The order of approximation by positive linear operators. **90c:41033**
Nussbaum, Roger D. Iterated nonlinear maps and Hilbert's projective metric. II. **90c:47109**
— Some nonlinear weak ergodic theorems. **90m:47081**
de Pagter, Ben *see* **Dodds, P. G.; et al., 90m:47047**
Pincket, J. P. On the Riesz representation theorem for vector valued measures. **90k:46100**
Rębowski, Ryszard *see* **Bartoszek, Wojciech, 90c:47012**
van Rooij, A. *see* **Buskes, G., 90g:46011**
Sarymsakov, T. A. (*with* Zimakov, N. P.) Ergodic properties of Markov operators in ordered normed spaces with a basis. (Russian) **90c:47015**
Schep, Anton R. The measure of noncompactness of a disjointness preserving operator. **90k:46044**
Segura de León, S. *see* **Andreu, A.; et al., 90b:47077** *and* **Andreu, F.; et al., 90m:46076**
Sucheston, L. *see* **Akcoglu, M. A., 90j:47005**
Swartz, Charles The uniform boundedness principle for order bounded operators. **90g:46014**
Synnatzschke, J. Stetige Elemente bedingt vollständiger l-Algebren. (English summary) [Continuous elements of conditionally complete l-algebras] **90c:06022**
Venter, Lucas (*with* Grobler, J. J.; van Eldik, Peter) The peripheral spectrum in Banach lattice algebras. **90h:46084**
Voigt, Jürgen On resolvent positive operators and positive C_0-semigroups on AL-spaces. **90a:47103**
Vuza, Dan Tudor Characterization of regular Riesz spaces using oru-compact operators. **90b:46015**
— Opérateurs de type convolution. (English summary) [Convolution operators] **90c:4705**
Wnuk, Witold A note on the positive Schur property. **90k:46045**
Wrobel, Volker Stability and spectra of C_0-semigroups. **90j:47051**
Zaharopol, Radu On the maximal ergodic theorem. **90j:47007**
Zimakov, N. P. *see* **Sarymsakov, T. A., 90c:47015**

47B99 None of the above, but in this section

Ben-Artzi, A. (*with* Gohberg, I.) Fredholm properties of band matrices and dichotomy. **90h:47066**
Cherkov, V. G. Some operators in spaces of functions over a finite field. (Russian) (*see* **90m:00015**)
Gohberg, I. *see* **Ben-Artzi, A., 90h:47066**
González, Manuel (*with* Onieva, V. M.) Characterizations of Tauberian operators and oth semigroups of operators. **90i:47041**
Kérchy, László Isometric asymptotes of power bounded operators. **90f:47050**
Liskevich, V. A. On the essential selfadjointness of operators in an infinite tensor product Hilbert spaces. **90b:47066**
Onieva, V. M. *see* **González, Manuel, 90i:47041**
Peng, Li Zhong (*with* Qian, Tao) A kind of multilinear operator and the Schatten-von Neumann classes. **90h:47067**
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Schomburg, Bernd Bemerkungen über Tensorprodukte koerzitiver Hilbertraum-Operatore (English summary) [Remarks on tensor products of coercive Hilbert space operators] **90k:47078**
Wu, Pei Yuan Products of normal operators. **90d:47039**
Zhang, Gen Kai On the operators $X \to AX - XB$ and $X \to AXB - X$. (Chinese. English summary) **90k:47079**

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Agler, Jim Nevanlinna-Pick interpolation on Sobolev space. **90f:30041**
Aleksandrov, E. L. (*with* Il′mushkin, G. M.) Moment operator problems. (Russian) (*see* **90i:00006**)
Almeida, D. F. *see* **Sharma, C. S., 90h:46042**
Amrein, Werner (*with* Boutet de Monvel-Berthier, Anne; Georgescu, Vladimir) Semicompactness and spectral analysis of N-body Hamiltonians. (French summary) **90d:47049**
Andersson, Mats The corona theorem for matrices. **90g:30036**
Andruchow, Esteban (*with* Stojanoff, Demetrio) Nilpotent operators and systems of projections. **90k:47039**
— (*with* Stojanoff, Demetrio) Differentiable structure of similarity orbits. **90k:47040**
Bolotnikov, V. A. Descriptions of solutions of a degenerate moment problem on the axis a the halfaxis. (Russian) **90g:30037**
Boutet de Monvel-Berthier, Anne *see* **Amrein, Werner; et al., 90d:47049**
Chu, Cho-Ho (*with* Iochum, Bruno) Weakly compact operators on Jordan triples. **90c:46086**
Cross, R. W. (*with* Labuschagne, L. E.) Partially continuous and semicontinuous linear operators in normed spaces. **90i:47001**
Ellis, Robert Lee (*with* Lay, David C.; Gohberg, I.) On negative eigenvalues of selfadjoin extensions of band matrices. **90e:15034**
Filippov, V. M. ★ Variational principles for nonpotential operators. **90i:47066**
Foiaş, Ciprian (*with* Tannenbaum, Allen) On the parametrization of the suboptimal solutions in generalized interpolation. **90k:30070**
Fritzsche, Bernd (*with* Kirstein, Bernd) A Schur type matrix extension problem. II. **90a:15025**
— (*with* Kirstein, Bernd) On generalized Nehari problems. **90a:15027**
Georgescu, Vladimir *see* **Amrein, Werner; et al., 90d:47049**
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Gu, Cai Xing *see* **Li, Shao Kuan, 90h:47007**
Herrero, Domingo A. The set of finite operators is nowhere dense. **90k:47041**
Hou, Jin Chuan Rank-preserving linear maps on $B(X)$. **90k:47100**
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Katsnel′son, V. È. (*with* Kheĭfets, A. Ya.; Yuditskiĭ, P. M.) An abstract interpolation problem and the theory of extensions of isometric operators. (Russian) **90b:47015**
Kheĭfets, A. Ya. The Parseval equality in an abstract problem of interpolation, and the union of open systems. II. (Russian) **90e:47009**
— *see also* **Katsnel′son, V. È.; et al., 90b:47015**
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Levi, Roni N. Spectral theory of commuting operators and K-theory. (Russian. English summary) **90k:58218**

i, Shao Kuan (*with* Gu, Cai Xing) Some problems about elementary operators. (Chinese) **90h:47007**
athieu, Martin Elementary operators on prime C^*-algebras. I. **90h:46092**
assty, Gregory B. (*with* Torrejón, Ricardo M.) On extending the router sum to monotone operators. **90m:47069**
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afonov, M. G. (*with* Le, V. X.) An alternative solution to the H_∞ control problem. **90m:93047**
auer, Niko The Friedrichs extension of a pair of operators. **90k:47090**
auvageot, J.-L. Tangent bimodule and locality for dissipative operators on C^*-algebras. **90k:46145**
Savchin, V. M.) *see* **Filippov, V. M., 90i:47066**
Schulenberger, J. R.) *see* **Filippov, V. M., 90i:47066**
harma, C. S. (*with* Almeida, D. F.) Additive functionals and operators on a quaternionic Hilbert space. **90h:46042**
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hen, You Xiang On class (M) quasicollectively compact operator sequences. (Chinese. English summary) **90k:47042**
ikorskiĭ, M. R. Some applications of Boolean-valued models to the study of operators on semi-normed spaces. (Russian) **90j:46046**
mith, Malcolm C. Sensitivity of H^∞ optimal control problems. (*see* **90k:93007**)
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admor, Gilead H^∞ interpolation and systems with input delays: a time domain approach. **90m:93048**
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erma, Madanpal S. Synthesis of H^∞-optimal feedback systems. (*see* **90k:93007**)
u, Pei Yuan The operator factorization problems. **90g:47031**
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7Cxx Single linear operators as elements of algebraic systems

7C05 Operators in algebras

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athes, D. Benjamin Operator ranges and completely bounded homomorphisms. **90c:47076**
och, S. (*with* Silbermann, Bernd) A symbol calculus for the algebra generated by shift operators. (German and Russian summaries) **90k:47023**
ilbermann, Bernd *see* **Roch, S., 90k:47023**
ei, Guo Qiang Commutants of reductive algebras and hyperinvariant subspaces. (Chinese. English summary) **90h:47043**

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el′dman, I. A. *see* **Krupnik, N. Ya.; et al., 90m:47014**
rupnik, N. Ya. (*with* Markus, A. S.; Fel′dman, I. A.) On the norm of a linear combination of projectors in a Hilbert space. (Russian) **90m:47014**
arkus, A. S. *see* **Krupnik, N. Ya.; et al., 90m:47014**

7C15 Operators in C^*- or von Neumann algebras

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nderson, Joel (*with* Paschke, William) The rotation algebra. **90k:46126**
avies, E. B. (*with* Rothaus, O. S.) Markov semigroups on C^*-bundles. **90i:58217**
adison, R. V. The Weyl theorem and block decompositions. **90h:46096**
cGuire, Paul C^*-algebras generated by subnormal operators. **90a:47063**
aschke, William *see* **Anderson, Joel, 90k:46126**
othaus, O. S. *see* **Davies, E. B., 90i:58217**
tröh, Anton (*with* Swart, Johan) Measures of noncompactness of operators in von Neumann algebras. **90d:46088**
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47D05 Semigroups of operators {For nonlinear operators, see 47H20; see also 20M20.}

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González, Manuel (*with* Onieva, V. M.) Semi-Fredholm operators and semigroups associated with some classical operator ideals. II. **90d:47015**

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Grosser, Michael Arens semiregularity of the algebra of compact operators. **90e:46038**

Hadwin, Don (*with* Hoover, T. B.) Operator algebras and the conjugacy of transformations. II. **90a:46175**

Hagen, Roland (*with* Silbermann, Bernd) A Banach algebra approach to the stability of projection methods for singular integral equations. **90k:47105**

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Karlovich, Yu. I. (*with* Litvinchuk, G. S.) Algebras of singular integral operators with discrete groups of shifts. (Russian) **90d:47055**

— Algebras of singular integral operators with discrete groups of shifts in the spaces L_p. **90e:47045**

Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI-algebras. (Russian) **90c:58018**

Kim, Ho On extensions of H-space ideals and problem of A. Pietsch. I. (Korean. English summary) (Not in MR)

Kluvánek, Igor Banach algebras occurring in spectral theory. **90i:47036**

Krupnik, N. Ya. ★ Banach algebras with symbol and singular integral operators. **90g:47092**

Larson, David R. On similarity of nests in Hilbert space and in Banach spaces. **90a:47110**

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47D35 Dual spaces of operator algebras and topological groups

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47D40 Algebras of unbounded operators

Alimov, A. A. Alternators on Jordan algebras of unbounded operators. (Russian) **90b:47083**
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Bhatt, S. J. Unbounded operator algebras. **90b:47084**
— On bounded part of an algebra of unbounded operators. **90d:47044**
Friedrich, Jürgen (*with* Schmüdgen, Konrad) n-positivity of unbounded $*$-representations. **90j:47055**
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Löffler, Frank (*with* Timmermann, Werner) Sequences of normal states on maximal Op*-algebras. (Russian) **90c:47082**
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Ôta, Schôichi Unbounded nilpotents and idempotents. **90c:47001**
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47D45 Applications to physics

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Lassner, Gisela A. *see* **Lassner, Gerd, 90h:47087**
Mashkevich, V. S. ★ Индетерминистская квантовая динамика. (Russian) [Nondeterministic quantum dynamics] **90g:81008**
Shabani, J. Quantized fields and operators on a partial inner product space. (French summary) **90a:46195**
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47D99 None of the above, but in this section

Andruchow, Esteban (*with* Fialkow, Lawrence A.; Herrero, Domingo A.; Pecuch Herrero, Marta B.; Stojanoff, Demetrio) Joint similarity orbits with local cross sections. **90j:47056**
van Eijndhoven, S. J. L. (*with* Kruszyński, Paweł) Spectral trajectories, duality and inductive-projective limits of Hilbert spaces. **90a:47115**
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Herrero, Domingo A. *see* **Andruchow, Esteban; et al., 90j:47056**
Hou, Jin Chuan Rank-preserving linear maps on $B(X)$. **90k:47100**
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Redheffer, Ray (*with* Volkmann, Peter) Differential inequalities and divisibility in operator algebras. **90e:47037**
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Shabani, J. Some unbounded commutants of a set of operators on a partial inner product space. **90a:47116**
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Bouldin, Richard Closure of invertible operators on a Hilbert space. **90m:47009**
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Daughtry, John (*with* Johns, Ronald) Arveson nests and operator factorization along commutative subspace lattices. **90c:47026**
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Li, Shao Kuan (*with* Ji, Yue^1) On Taylor's joint spectrum of $2n$-tuple (L_A, R_B). **90d:47009**
— (*with* Ji, Yue^1) On the Taylor's joint spectrum of $2n$-tuple (L_A, R_B). **90d:47008**
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Voiculescu, Dan Property T and approximation of operators. **90m:46101**
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Binding, Paul (*with* Browne, Patrick J.) Eigencurves for two-parameter selfadjoint ordinary differential equations of even order. **90e:47038**
Biyarov, B. N. Volterra boundary value problems for the Sturm-Liouville equation. (Russian. Kazakh summary) **90e:47039**
Božinov, Nikolaĭ S. A necessary and sufficient condition for existence of formal expansion on eigen and associated functions of the nonlocal Sturm-Liouville operator and sufficient conditions for completeness of its root subspaces. **90m:47061**
Brown, Richard C. (*with* Hinton, Don) On the Dirichlet index conjecture. **90h:47088**
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Cao, Ce Wen Traces of differential operators. (Chinese. English summary) **90f:47065**
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Ćurgus, Branko (*with* Langer, Heinz) A Kreĭn space approach to symmetric ordinary differential operators with an indefinite weight function. **90j:47060**
Darwish, A. A. A study of the spectrum, of a singular nonselfadjoint operator with discontinuous coefficient and with integral boundary condition. (Arabic summary)

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— The adjoint of a differential operator of the second order with discontinuous coefficient including a parameter in the boundary condition. (Arabic summary) **90e:47040**
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Frentzen, Hilbert Limit-point criteria for symmetric and J-symmetric quasidifferential expressions of even order with a positive definite leading coefficient. **90c:47085**
Gel′fand, I. M. (*with* Zakharevich, I. S.) Spectral theory of a pencil of third-order skew-symmetric differential operators on S^1. **90i:47048**
Gilbert, D. J. On subordinacy and analysis of the spectrum of Schrödinger operators with two singular endpoints. **90j:47061**
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Maksudov, F. G. (*with* Allakhverdiev, B. P.) On the theory of characteristic functions and spectral analysis of dissipative Schrödinger operators. (Russian) **90m:47064**
— (*with* Veliev, O. A.) Spectral analysis of differential operators with periodic matrix coefficients. **90d:47045**
— (*with* Allakhverdiev, B. P.) On the theory of the characteristic function and on the spectral analysis of a dissipative Schrödinger operator. **90d:47046**
Malozemov, L. A. The Thouless formula and the absence of an absolutely continuous spectrum for Schrödinger operators with perturbed random potentials. **90d:47047**
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Pastur, L. A. (*with* Tkachenko, Vadim Aleksandrovich) Spectral theory of a class of one-dimensional Schrödinger operators with limit-periodic potentials. (Russian) **90h:47090**
Race, D. Dirichlet-type criteria and accretiveness criteria for complex Sturm-Liouville operators. **90m:47065a**
— Erratum: "Dirichlet-type criteria and accretiveness criteria for complex Sturm-Liouville operators". **90m:47065b**
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Allakhverdiev, B. P. Completeness of eigenfunctions for a dissipative Schrödinger operator and resonance states in a problem of the scattering of one-dimensional plane waves. (Russian. English and Azerbaijani summaries) **90b:34032**
Allegretto, W. (*with* Mingarelli, A. B.) Boundary problems of the second order with an indefinite weight-function. **90i:35084**
Almamedov, M. S. Proper products of multiparametric Sturm-Liouville matrix equations. **90f:34039**
Amangil′din, T. G. The regularized trace of the Sturm-Liouville operator. (Russian) **90f:34040**
Andersson, Lars-Erik Inverse eigenvalue problems for a Sturm-Liouville equation in impedance form. **90g:34010**
Anoshchenko, O. A. Eigenfunction expansion of the Schrödinger equation with a potential that has periodic asymptotics. (Russian) **90d:34049**
Antonevich, A. B. ★ Линейные функциональные уравнения. Операторный подход. (Russian) [Linear functional equations. The operator approach] **90f:39001**
Arutyunyan, T. N. Asymptotics of the Weyl-Titchmarsh function and the inverse problem for the Dirac system. (Russian. English and Armenian summaries) **90k:34019**
Atadzhanov, B. A. Oscillation properties of a fourth-order differential equation and the structure of the spectrum of corresponding operators. (Russian) (Not in MR)
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Basu Mallick, B. (*with* Kundu, A.) Levinson-type theorem for the Korteweg-de Vries system and its consequences. **90b:35197**
Beals, Richard (*with* Deift, Percy A.; Tomei, C.) ★ Direct and inverse scattering on the line. **90a:58064**
Bekker, M. B. An integral representation of Hermitian-positive matrix kernels of a special structure. **90f:47022**
Boccardo, Lucio (*with* Dacorogna, Bernard) Monotonicity of certain differential operators in divergence form. **90e:34111**
Bochenek, Jan Nodes of eigenfunctions of Sturm-Liouville problem with an indefinite weight function. **90f:34041**
Bogomolova, E. P. (*with* Pechentsov, A. S.) On the basis properties of a system of eigenfunctions of a boundary value problem with a multiple root of the characteristic polynomial. (Russian) **90k:34021**
Bondarev, A. V. On a spectral theory of the one-dimensional Dirac operator with metrically transitive potential. (Russian. English summary) **90g:34025**
Borogovac, M. (*with* Langer, Heinz) A characterization of generalized zeros of negative type of matrix functions of the class $N_\kappa^{n\times n}$. **90f:47045**
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Chakravarty, N. K. On the asymptotic formulae for the spectral matrix of a differential operator. **90h:34023**
— (*with* Roy Paladhi, Swapna) On the spectral resolution of a differential operator. IV. **90m:34059**
Chesalin, V. I. The Cauchy problem for some higher-order operator-differential equations. (Russian. English and Slovak summaries) (Not in MR)
Chulaevskiĭ, V. A. (*with* Sinaĭ, Ya. G.) Anderson localization for the 1-D discrete Schrödinger operator with two-frequency potential. **90j:34038**
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Gasymov, M. G. (*with* Guseĭnov, G. Sh.) Some uniqueness theorems in inverse problems of spectral analysis for Sturm-Liouville operators in the case of the Weyl limit circle. **90e:34020**
Gerasimenko, N. I. (*with* Pavlov, B. S.) A scattering problem on noncompact graphs. **90f:47010**
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Gurarie, D. Asymptotic inverse spectral problem for anharmonic oscillators with odd potentials. **90e:34021**
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Hadeler, K. P. *see* **Waldstätter, R.; et al., 90a:92058**
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Ifantis, Evangelos K. A theorem concerning differentiability of eigenvectors and eigenvalues with some applications. **90c:47020**
Ivanov, Valentin Konstantinovich (*with* Perminov, V. V.) ★ Нелинейные операторы в свертках: обыкновенные дифференциальные уравнения. (Russian) [Nonlinear convolution operators: ordinary differential equations] **90k:46095**
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Karl, Johann ★ Nichtlineare Umlaufseigenwertprobleme bei Differentialgleichungen im Komplexen. (German) [Nonlinear boundary eigenvalue problems for complex

differential equations] **90j:34008**

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— *see also* **Mishchenko, A. S., 90m:58206**
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— *see also* **Karlovich, Yu. I., 90f:47034**
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— Some boundary value problems on a half-axis for a class of integro-differential equations. (Not in MR)
— Boundary value problems for a class of integro-differential equations and related spectral problems. **90b:45023**
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47Hxx Nonlinear operators {For global and geometric aspects, see 58–XX, especially 58Cxx.}

Balabanov, V. A. ★ Некоторые вопросы нелинейного функционального анализа и их применения. (Russian) [Some problems in nonlinear functional analysis and their applications] **90b:47096**

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47H05 Monotone operators

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You, Zhao Yong (*with* Liu, Kun Kun) An iterative solution procedure for equations involving monotonic Lipschitz mappings on unbounded sets. (Chinese. English summary) **90g:65081**

47H06 Accretive operators, dissipative operators, etc.

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Calvert, Bruce (*with* Fitzpatrick, Simon; Solomon, Wiremu) Boundedness of approximations in summation of accretive operators. **90f:47081**
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Morales, Claudio H. Mapping theorem for multivalued operators of accretive type. **90f:47082**
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47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

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Mocanu, Constanţa Nonlinear averaging operators of Cesàro type. **90e:47055**
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Du, Yi Hong Multiple-fixed points of increasing operators. (Chinese. English summary) **90g:47098**
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Guo, Da Jun Fixed points of mixed monotone operators with applications. **90k:47114**
Krause, Ulrich *see* **Fujimoto, Takao, 90b:47119**
Nussbaum, Roger D. (*with* Cohen, Joel E.) The arithmetic-geometric mean and its generalizations for noncommuting linear operators. **90e:47018**
— Iterated nonlinear maps and Hilbert's projective metric. II. **90c:47109**
— Some nonlinear weak ergodic theorems. **90m:47081**
Popova, V. V. Common fixed points of operators of completely slow growth. (Russian) **90j:47077**
Takáč, Peter Asymptotic behavior of discrete-time semigroups of sublinear, strongly increasing mappings with applications to biology. **90j:47088**
Zaslavskiĭ, A. Ya. A remark on the subdifferential of a sublinear projector. (Russian) (*see* **90h:00005**)

47H09 Nonexpansive mappings, ultimately compact mappings, A-proper mappings, K-set contractions, etc.

Appell, Jürgen (*with* Massabò, Ivar; Vignoli, Alfonso; Zabreĭko, P. P.) Lipschitz and Darbo conditions for the superposition operator in ideal spaces. (Italian summary) **90c:47096**
— Explicit formulas for Sadovskij functionals in function spaces. **90k:47112**
Domínguez Benavides, Tomás Set-contractions and ball-contractions in some classes of spaces. **90c:47097**
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Rybiński, Longin E. Random fixed points and viable random solutions of functional-differential inclusions. **90i:34088**

Rzepecki, Bogdan A contraction mapping principle and some applications. **90e:54100**

Saito, Seiji Global stability of solutions for quasilinear ordinary differential systems. **90k:34057**

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Sarapa, N. *see* **Dedeić, R., 90j:54045**

Sastry, K. P. R. (*with* Naidu, S. V. R.) Common fixed points for self maps. **90f:54069**

Schuur, J. D. Applying a fixed point technique to asymptotic behavior and boundary value problems in ordinary differential equations. (Italian summary) (Not in MR)

Sehgal, V. M. (*with* Singh, Sankatha Prasad) A theorem on best approximations. **90b:41054**

Sen Gupta, S. B. (*with* Dutta, Sudhanshu Kumar) Common fixed point of operators. **90h:54057**

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Sharma, Ram Sanehi (*with* Pande, R. K.) A chain of results on fixed points. **90m:54055**

Sims, Brailey Orthogonality and fixed points of nonexpansive maps. **90i:46045**

Sine, Robert Hyperconvexity and approximate fixed points. **90g:54041**

— Hyperconvexity and nonexpansive multifunctions. **90a:54054**

— A nonlinear Perron-Frobenius theorem. **90i:47058**

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Singh, Ram Kishore *see* **Singh, Uday Narayan, 90h:54061**
Singh, S. L. (*with* Ha, Ki Sik; Cho, Yeol Je) Coincidence and fixed points of nonlinear hybrid contractions. **90g:54042**
Singh, Sankatha Prasad *see* **Sehgal, V. M., 90b:41054** *and* **Carbone, Antonio; et al., 90f:54065**
Singh, Uday Narayan (*with* Singh, Ram Kishore) Generalized fixed point theorems in metric space. **90h:54061**
Som, Tanmoy (*with* Mukherjee, Rathindra Nath[1]) Some results on generalized contractive moduli of a pair of operators. (Not in MR)
— *see also* **Mukherjee, Rathindra Nath[1]; et al., 90j:54048**
Stojaković, Mila A common fixed point theorems in probabilistic metric spaces and its applications. (Serbo-Croatian summary) **90d:54097**
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Vrahatis, Michael N. A short proof and a generalization of Miranda's existence theorem. **90e:54102**
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Wang, Ti Xiang Fixed-point theorems and fixed-point stability for multivalued mappings on metric spaces. (Chinese summary) **90m:54056**
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— (*with* Huang, Nan Jing) Fixed point theorems for set-valued mappings in 2-metric spaces. **90i:54107**
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Albanese, C. A continuation method for nonlinear eigenvalue problems. **90f:47090**
Aliev, Z. S. *see* **Makhmudov, A. P., 90c:47108** *and* **90f:47091**
Kardashov, V. R. Generalized eigenvalue problems and strongly nonlinear self-induced oscillations. **90k:47119**
Maddox, I. J. (*with* Wickstead, A. W.) The spectrum of uniformly Lipschitz mappings. **90k:47120**
Makhmudov, A. P. (*with* Aliev, Z. S.) Nondifferentiable perturbations of spectral problems for a pair of selfadjoint operators, and global bifurcation. **90c:47108**
— (*with* Aliev, Z. S.) A nonlinear analogue of an implicit method in the theory of perturbations of an isolated eigenvalue. **90f:47091**
Nguyễn Xuân Tấn Bifurcation points of equations involving scalar nonlinear mappings in Banach spaces. **90k:47121**
Nussbaum, Roger D. Iterated nonlinear maps and Hilbert's projective metric. II. **90c:47109**
Schechter, Martin The Hampwile theorem for nonlinear eigenvalues. **90j:47080**
Sun, Jing Xian The global structure of the set of characteristic vectors for superlinear operators. (Chinese) **90g:47107**
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Chiappinelli, R. Remarks on Krasnosel'skiĭ bifurcation theorem. **90j:58026**
— Estimates on the eigenvalues for some nonlinear ordinary differential operators. **90m:34060**
Fournier, G. (*with* Martelli, Mario) Boundary conditions and vanishing index for α-contractions and condensing maps. **90m:47070**
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Gromov, Mikhael L. Dimension, nonlinear spectra and width. **90d:58022**
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Šeda, Valter Some remarks to coincidence theory. **90a:47160**
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Yang, Shu Lang Some problems concerning the mapping equation in locally convex spaces. (Chinese. English summary) **90a:47152**
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Angelov, Vasil G. A surjectivity result for nonlinear mappings on uniform spaces and applications. **90m:47075**
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Argyros, Ioannis K. Some sufficient conditions for finding a second solution of the quadratic equation in a Banach space. (Russian summary) **90g:47108**
— Approximating the fixed points of some nonlinear operator equations. (Russian summary) **90g:47109**
— A global theorem for the solutions of polynomial equations. **90f:47094**
— Vietta-like relations in Banach space. **90f:47095**
— New ways for finding solutions of polynomial equations in Banach space. **90f:47093**
Asrorov, Ya. An application of a comparison theorem for a class of operator equations. (Russian) **90g:47110**
Aubin, Jean-Pierre (*with* Wets, Roger J.-B.) Stable approximations of set-valued maps. (French summary) **90d:47065**
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— (*with* Knap, Zygmunt) Integrable solutions of a functional-integral equation. **90g:47111**
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Brykalov, S. A. Nonlinear boundary value problems and the existence of stationary states of heating control systems. **90k:47124**
Chidume, C. E. Iterative solution of nonlinear equations of the monotone and dissipative types. **90g:47112**
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Dannon, Vitali C. (*with* Kartsatos, Athanassios G.) Generation of evolution operators in Banach lattices. **90k:47125**
Dement'ev, S. N. (*with* Yanovskiĭ, L. P.) Two-sided estimates for solutions of operator equations. **90j:47083**
Ding, Sun Hong (*with* Mawhin, J.) The range of some monotone gradient perturbations of selfadjoint operators with finite-dimensional kernel having the unique continuation property. **90k:47126**
Dong, Bing Hua Existence of solutions to monotone operator equations. (Chinese. English summary) **90k:47127**
Dosumov, T. B. Solvability of nonlinear operator equations. (Russian) **90k:47128**
Drábek, Pavel On the Fredholm alternative for a-homogeneous operators. (Italian summary) **90c:47110**
Dragomir, S. S. A surjectivity theorem for nonlinear operators. (Romanian summary) **90e:47065**
Du, Yi Hong Nonzero solutions and eigenvectors of nonlinear equations. (Chinese) **90i:47065**
Filin, V. A. On the uniqueness of nonlinear mappings. (Russian. Tajiki summary) **90h:47107**
Filippov, V. M. On the existence of a solution of an inverse problem of the calculus of variations for nonlinear nonpotential operators. (Russian) (*see* **90a:00008**)
— ★ Variational principles for nonpotential operators. **90i:47066**
Fonda, Alessandro Variational problems at resonance without monotonicity. **90k:47129**
Fonf, V. P. *see* **Kadets, V. M.; et al., 90e:47066**
Greenberg, William (*with* Polewczak, Jacek) Transport equations in weak* topologies of dual Banach spaces. **90f:47096**
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Haraux, A. Anti-periodic solutions of some nonlinear evolution equations. **90f:47097**
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Iftode, Vasile Periodic and almost-periodic solutions for a nonlinear operator equation in Hilbert space. **90a:47158**
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Kadets, M. I. *see* **Kadets, V. M.; et al., 90e:47066**
Kadets, V. M. (*with* Kadets, M. I.; Fonf, V. P.) Resolving and strongly resolving regularizers. **90e:47066**
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Klimov, V. S. On the problem of periodic solutions of operator differential inclusions. **90h:47109**
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Kovalevskiĭ, A. A. G-convergence of abstract operators with different domains. (Russian. English summary) **90c:47112**
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Krawcewicz, Wiesław Contribution à la théorie des équations non linéaires dans les espaces de Banach. [Contribution to the theory of nonlinear equations in Banach spaces] **90c:47113**
Krejči, Pavel Hysteresis operators—a new approach to evolution differential inequalities. **90m:47076**
— (*with* Lovicar, Vladimír) Continuity of hysteresis operators in Sobolev spaces. (Russian

and Czech summaries) **90m:47077**
Li, Yu^1 The structure of the solution set for Birkhoff-Kellogg type equations involving A-proper O-epi maps. (Chinese. English summary) **90j:47085**
Long, Yi Ming On the density of the range for some nonlinear operators. (French summary) **90f:47098**
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Marchuk, G. I. (*with* Agoshkov, V. I.) Conjugate equations in nonlinear problems and their applications. (Russian) **90m:47078**
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Meleshko, V. I. Regularization of nonlinear irregular mappings. **90k:47130**
Milojević, P. S. Solvability of nonlinear operator equations with applications to hyperbolic equations. **90c:47114**
Nieto, Juan J. Decreasing sequences of compact absolute retracts and nonlinear problems. (Italian summary) **90c:47115**
Pan, Xing Bin Solutions to a class of combined operator equations. (Chinese) **90g:47116**
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Poffald, Esteban I. (*with* Reich, Simeon) A difference inclusion. **90m:47079**
Polewczak, Jacek Ordinary differential equations on closed subsets of Fréchet spaces with applications to fixed point theorems. **90j:47086**
— *see also* **Greenberg, William, 90f:47096**
Polityukov, V. P. A method for monotonization of nonlinear equations in a Banach space. **90a:47159**
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Sung, N. S. *see* **Bae, Jong Sook, 90j:47081**
Szufla, Stanisław On the application of measure of noncompactness to differential and integral equations in Banach spaces. **90e:47067**
Verdi, C. (*with* Visintin, Augusto) Numerical approximation of the Preisach model for hysteresis. (French summary) **90d:47067**
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Winiarska, Teresa Dependence on parameter of solution of a nonlinear problem. **90f:47099**
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Zeragiya, D. P. Eigenvalues and eigenelements of a class of nonlinear equations. (Russian) **90b:47114**
Zhao, Yi Chun (*with* Hu, Zhi Guo) A generalized topological degree for S-A-proper mappings and its applications. **90a:47162**
— (*with* Yang, Guang Hong) On the generalized topological degree for perturbed maximal monotone mappings. **90i:47070**

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Abdurakhmanov, Abdurakhman Aslanovich (*with* Zabreĭko, P. P.) Lumer estimates for nonlinear operators, and their applications. (Russian. English summary) **90a:47136**
Aftabizadeh, A. R. (*with* Pavel, N. H.) Boundary value problems for second order differential equations and a convex problem of Bolza. **90i:34094**
Aliev, Z. S. *see* **Makhmudov, A. P., 90b:58040** *and* **90k:58039**
Alifanov, O. M. (*with* Artyukhin, E. A.; Rumyantsev, S. V.) ★ Экстремальные методы решения некорректных задач и их приложения к обратным задачам теплообмена. (Russian) [Extremal methods for solving ill-posed problems and their applications to inverse problems of heat exchange] **90a:35219**
Amann, Herbert Remarks on quasilinear parabolic systems. **90k:35132**
Aminov, R. Kh. (*with* Gabdulkhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. **90b:45021**
Anichini, G. (*with* Zecca, Pietro) Existence of bounded solutions for set-valued equations in Banach spaces. (Italian summary) **90g:34012**
— (*with* Conti, Giuseppe) Boundary value problems with nonlinear boundary conditions. **90a:34040**
Appell, Jürgen (*with* Nguyễn Hồng Thái; Zabreĭko, P. P.) General existence theorems for quasilinear elliptic systems without monotonicity. **90k:35098**
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Asano, Kiyoshi A note on the abstract Cauchy-Kowalewski theorem. **90b:35231**
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Askhabov, S. N. (*with* Karapetyants, N. K.) Discrete equations of convolution type with monotone nonlinearity. **90j:39005**
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Bahri, Abbas (*with* Lions, P.-L.) Morse index of some min-max critical points. I. Application to multiplicity results. **90b:58035**
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Bęczek, Jan On the existence of solutions of some nonlinear Dirichlet problems. **90d:35097**
Beirão da Veiga, H. On the well-posedness of the Euler flow in bounded domains. **90m:35148**
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Boccardo, Lucio (*with* Drábek, Pavel; Kučera, Milan) Landesman-Lazer conditions for strongly nonlinear boundary value problems. **90k:35101**
Borisovich, Yu. G. Global analysis and solvability of nonlinear boundary value problems. (Russian) **90m:58022**
Brandi, Primo (*with* Ceppitelli, Rita) Existence, uniqueness, and continuous dependence for hereditary differential equations. **90j:34092**
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Chiappinelli, R. Remarks on Krasnosel′skiĭ bifurcation theorem. **90j:58026**
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Church, P. T. (*with* Timourian, J. G.) A nonlinear elliptic operator and its singular values. **90d:58028**
Clément, Philippe (*with* Mitidieri, Enzo) Qualitative properties of solutions of Volterra equations in Banach spaces. **90c:45017**
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Colonius, F. (*with* Manitius, Andrzej; Salamon, Dietmar) Structure theory and duality for time varying retarded functional-differential equations. **90e:34122**
Connolly, T. J. (*with* Wall, David J. N.) On an inverse problem, with boundary measurements, for the steady state diffusion equation. **90b:35238**
Conrey, J. Brian (*with* Smiley, Michael W.) Some geometric aspects of hyperbolic boundary value problems. **90f:35119**
Constantin, Gh. (*with* Istrăţescu, I.) Random measure of noncompactness in PM-spaces and applications. **90i:47060**
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Corduneanu, C. Some global problems for Volterra functional-differential equations. **90h:34103**
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Dhakne, M. B. (*with* Pachpatte, B. G.) On perturbed abstract functional integrodifferential equation. **90d:45006**
Diamond, Phil Bifurcations of Banach space operators. **90a:58029**
Ding, Sun Hong Existence of solution for a kind of boundary value problem with jumping character. **90a:34043**

Domanskiĭ, E. N. (*with* Ostrovskiĭ, M. I.) Regularizability of operators inverse to linear injections and to the superpositions of them. **90d:47004**

Donchev, Tzanko D. Stability results for a class of nonlinear differential inclusions in Banach spaces. **90e:34113**

Dorogovtsev, A. Ya. (*with* Ortega, O. A.) On the existence of periodic solutions of a stochastic equation in a Hilbert space. (Ukrainian. Russian summary) **90k:60107**

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Du, Yi Hong Multiple-fixed points of increasing operators. (Chinese. English summary) **90g:47098**

Edelson, Allan L. (*with* Pera, Maria Patrizia) Connected branches of asymptotically equivalent solutions to nonlinear eigenvalue problems. (Italian summary) **90f:58142**

Efendiev, M. A. The F-QL-property of a class of nonlinear operators. (Russian. English and Azerbaijani summaries) **90f:47102**

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Jawerth, B. *see* **Cwikel, M.; et al., 90k:46157**

Kang, Byung Gai (*with* Park, Sehie) On generalized ordering principles in nonlinear analysis. **90m:54039**

Khachatryan, R. A. (*with* Arutyunyan, V. V.) Cones of tangential directions in problems with operator constraints. (Russian. Armenian summary) **90e:49018**

Korytov, S. G. On the theory of the maximum principle. (Russian) **90f:90154**

Krasnosel′skiĭ, M. A. (*with* Pokrovskiĭ, A. V.) ★ Systems with hysteresis. **90a:93001**

Kurakin, L. G. Semi-invariant form of criteria for stability of fixed points of a mapping in critical cases. (Russian) **90k:58103**

Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **90c:46003**

Kutateladze, S. S. *see* **Kusraev, A. G., 90c:46003**

Kutzarova, D. N. On condition (β) and Δ-uniform convexity. **90b:46039**

Łędzewicz-Kowalewska, Urszula A necessary condition for the extremal problems under Gateaux differentiability. **90b:49024**

Letavin, M. I. Characterization of the asymptotic stability of homogeneous potential operators by means of eigenvalues. **90k:34078**

Li, Cai Zhong *see* **Mu, Li Bin, 90a:49018**

Lobanov, S. G. The chain rule and its converse for mappings of locally convex spaces. **90d:58018**

Malanowski, Kazimierz Sensitivity analysis of optimization problems in Hilbert space with application to optimal control. **90h:93039**

Maligranda, Lech On interpolation of nonlinear operators. **90k:46159**

Markus, A. S. (*with* Pöltz, R.) Various measures of noncompactness for linear operators in some Banach spaces. (Russian) **90i:47056**

Milman, Mario *see* **Cwikel, M.; et al., 90k:46157**

Mu, Li Bin (*with* Li, Cai Zhong) A general notion of quasiconvexity and weak lower semicontinuity of nonlinear functionals. (Chinese) **90a:49018**

Németh, A. B. Domination of cones and subdifferentiability of convex operators. **90h:49010**

(Niezgódka, Marek) *see* **Krasnosel′skiĭ, M. A., 90a:93001**

Park, Sehie *see* **Kang, Byung Gai, 90m:54039**

Pavlov, G. A. On the uniqueness of the solution of an abstract inverse problem. **90c:31011**

Phạm Hữu Sách Differentiability of set-valued maps in Banach spaces. **90c:49027**

Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. **90g:46063**

Pokrovskiĭ, A. V. *see* **Krasnosel′skiĭ, M. A., 90a:93001**

Põltz, R. *see* **Markus, A. S., 90i:47056**

Przesławski, Krzysztof (*with* Yost, David Thomas) Continuity properties of selectors and Michael's theorem. **90d:49010**

Quittner, Pavol On the principle of linearized stability for variational inequalities. **90b:49014**

Rassias, Themistocles M. An application of variational calculus in mechanics and some properties of the eigenvalues of the Laplacian. **90a:58184**

Rochberg, Richard *see* **Cwikel, M.; et al., 90k:46157**

Scheffler, H.-P. (*with* Schirotzek, W.) Necessary optimality for nonsmooth problems with operator constraints. (German and Russian summaries) **90k:49026**

Schep, Anton R. The measure of noncompactness of a disjointness preserving operator. **90k:46044**

Schirotzek, W. *see* **Scheffler, H.-P., 90k:49026**

Şerban-Tofan, Doina (o)-continuous bilinear operators. (Romanian summary) **90a:47094**

Shkarin, S. A. *see* **Bogachev, V. I., 90b:58019**

Strójwas, H. M. *see* **Borwein, J. M., 90e:90102**

Subramanian, P. K. A note on least two norm solutions of monotone complementarity problems. **90h:49005**

Szczypiński, Tomasz Nonlinear operator valued measures and integration. **90i:28014**

Szilágyi, P. The Dirichlet problem for some nonlinear elliptic systems in unbounded domains. **90b:35090**

— Pseudo-monotone operators in the study of nonlinear elliptic systems. **90b:35091**

Tannenbaum, Allen *see* **Foias, Ciprian, 90h:93038**

Targoński, György (*with* Zdun, M. C.) ★ Substitution operators on L^p-spaces and their semigroups. **90e:47024**

Turinici, M. Metric variants of the Brézis-Browder ordering principle. **90m:06020**

Valadier, M. Un cas d'affinité d'une multifonction. [A case in which a multifunction is affine] (*see* **90a:00015**)

Villani, Alfonso *see* **Frasca, Michele, 90d:46035**

Vũ Ngọc Phát Approximate controllability of nonlinear discrete systems in Banach spaces. **90i:93015**

Wang, Chang Yu (*with* Chen, Guang Jun) Some properties of closed point-to-set mappings. (Chinese) **90i:90119**

Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^*-algebras and complex Hilbert spaces. **90e:46066**

Wrobel, Andrzej J. *see* **Horsley, Anthony, 90b:46090**

Yellott, John I., Jr. Constant volume operators and lateral inhibition. **90g:92108**

Yost, David Thomas *see* **Przesławski, Krzysztof, 90d:49010**

Zabreĭko, P. P. *see* **Appell, Jürgen, 90a:47154**

Zdun, M. C. *see* **Targoński, György, 90e:47024**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

Items with secondary classifications in 49–XX

(Gabasov, R.) *see* **Current problems in the theory of dynamical control systems, 90m:93001**

(Gaĭshun, I. V.) *see* **Current problems in the theory of dynamical control systems, 90m:93001**

(Kirillova, F. M.) *see* **Current problems in the theory of dynamical control systems, 90m:93001**

Items listed otherwise than by author

Current problems in the theory of dynamical control systems ★ Актуальные задачи теории динамических систем управления. (Russian) [Current problems in the theory of dynamical control systems] **90m:93001**

49–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 49–00

Rodin, E. Y. A pursuit-evasion bibliography—version 2. **90f:90192**

49–01 Elementary exposition; textbooks

Baumbach, Eckhard (*with* Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. I. Ein Problem der Mathematik und der Chemie. [Soap bubble surfaces in various regular bodies. I. A problem of mathematics and chemistry] **90b:49001a**

— (*with* Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. II. [Soap bubble surfaces in various regular bodies. II] **90b:49001b**

Hoffmann, Bernd-D. *see* **Baumbach, Eckhard, 90b:49001a** *and* **90b:49001b**

Klingbeil, Eberhard ★ Variationsrechnung. (German) [Variational calculus] **90b:49002**

Items with secondary classifications in 49–01

(Embarek, Djilali) *see* **Smirnov, Vladimir Ivanovich, 90k:00002c**

Faurre, Pierre ★ Analyse numérique. (French) [Numerical analysis] **90a:65146**

Smirnov, Vladimir Ivanovich ★ Lehrgang der höheren Mathematik. Teil IV/1. (German) [Course in higher mathematics. Part IV/1] **90k:00003a**

— ★ Cours de mathématiques supérieures. Tome IV. Première partie. (French) [Course in higher mathematics. Vol. IV. Part One] **90k:00002c**

de Spinadel, Vera W. Differential games and optimal control theory. **90m:90334**

Vasil′ev, F. P. ★ Численные методы решения экстремальных задач. (Russian) [Numerical methods for solving extremal problems] **90g:65005**

49–02 Advanced exposition (research surveys, monographs, etc.)

Aubin, Jean-Pierre (*with* Nepomiastchy, Pierre; Charles, Anne-Marie) ★ Explicit methods of optimization. **90k:49001**

(Boron, Leo F.) *see* **Zeidler, Eberhard, 90b:49005**

Charles, Anne-Marie *see* **Aubin, Jean-Pierre; et al., 90k:49001**

Congedo, Giuseppe (*with* Tamanini, Italo) Notes on the regularity of minimizers of least area functionals. (Italian. English summary) **90b:49003**

Dacorogna, Bernard ★ Direct methods in the calculus of variations. **90e:49001**

Fraser-Andrews, G. Finding candidate singular optimal controls: a state of the art survey. **90b:49004**

Hoffmann, Karl-Heinz^{1} Steuerung freier Ränder. [Control of free boundaries] **90g:49001**

Ishmukhametov, A. Z. *see* **Vasil′ev, F. P.; et al., 90i:49001**

Ivanenko, V. I. (*with* Mel′nik, V. S.) ★ Вариационные методы в задачах управления для систем с распределенными параметрами. (Russian) [Variational methods in control problems for systems with distributed parameters] **90a:49001**

McShane, Edward James The calculus of variations from the beginning through optimal control theory. **90h:49001**

Mel′nik, V. S. *see* **Ivanenko, V. I., 90a:49001**

Nepomiastchy, Pierre *see* **Aubin, Jean-Pierre; et al., 90k:49001**

(Orde, H. L. S.) *see* **Aubin, Jean-Pierre; et al., 90k:49001**

Orlov, Yu. V. ★ Теория оптимальных систем с обобщенными управлениями. (Russian) [Theory of optimal systems with generalized controls] **90a:49002**

Popescu, Vasile ★ Control optimal pentru ecuaţii de evoluţie. (Romanian) [Optimal control for evolution equations] **90k:49002**

Potapov, M. M. *see* **Vasil′ev, F. P.; et al., 90i:49001**

Tamanini, Italo *see* **Congedo, Giuseppe, 90b:49003**

Vasil′ev, F. P. (*with* Ishmukhametov, A. Z.; Potapov, M. M.) ★ Обобщенный метод моментов в задачах оптимального управления. (Russian) [The generalized moment method in problems of optimal control] **90i:49001**

Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. III. **90b:49005**

Items with secondary classifications in 49–02

Afanas′ev, V. N. (*with* Kolmanovskiĭ, V. B.; Nosov, V. R.) ★ Математическая теория конструирования систем управления. (Russian) [Mathematical theory in the design of control systems] **90g:93001**

Burovoĭ, I. A. *see* **Emel′yanov, S. V.; et al., 90e:93001**

Clarke, F. H. ★ Optimization and nonsmooth analysis. **90g:49011**

Emel′yanov, S. V. (*with* Burovoĭ, I. A.; Levada, F. Yu.) ★ Подход к формализованному синтезу структур систем бинарного управления неопределенными нелинейными объектами. (Russian) [An approach to a formalized design of the structures of systems of binary control of indeterminate nonlinear objects] **90e:93001**

(Fomenko, A. T.) *see* **Giusti, Enrico, 90g:58024**

Giusti, Enrico Quadratic functionals with splitting coefficients. **90b:49059**

— ★ Минимальные поверхности и функции ограниченной вариации. (Russian) [Minimal surfaces and functions of bounded variation] **90g:58024**

Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. **90c:49010**

Kolmanovskiĭ, V. B. *see* **Afanas′ev, V. N.; et al., 90g:93001**

Levada, F. Yu. *see* **Emel′yanov, S. V.; et al., 90e:93001**

(Moreau, Jean-Jacques) *see* **Nonsmooth mechanics and applications, 90j:73002**

Neittaanmäki, Pekka *see* **Haslinger, J., 90c:49010**

Nosov, V. R. *see* **Afanas′ev, V. N.; et al., 90g:93001**

(Panagiotopoulos, Panagiotis D.) *see* **Nonsmooth mechanics and applications, 90j:73002**

(Pluzhnikov, A. I.) *see* **Giusti, Enrico, 90g:58024**

(Quandt, Juergen) *see* **Zeidler, Eberhard, 90b:00004**

White, Brian Cabell Some recent developments in differential geometry. **90k:53003**

Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

Zhang, Cheng Dian ★ Calculus of variations with multiple integration. **90g:49004**

Items listed otherwise than by author

Nonsmooth mechanics and applications ★ Nonsmooth mechanics and applications. **90j:73002**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 49–03

(Gamkrelidze, R. V.) *see* **Pontryagin, L. S., 90c:01141**

Hildebrandt, Stefan (*with* Tromba, Anthony) ★ Panoptimum. (German) **90k:00007**

— The calculus of variations today. **90k:01018**

Pepe, Luigi Leonida Tonelli and the calculus of variations. (Italian) **90k:01043**

Pontryagin, L. S. ★ Избранные научные труды. Том II. (Russian) [Selected scientific works. Vol. II] **90c:01141**

Roxin, Emilio O. Preface: Thirty years of modern optimal control—a historical perspectiv **90j:01104**

(Shenitzer, A.) *see* **Hildebrandt, Stefan, 90k:01018**

(Tonelli, Leonida) *see* **Pepe, Luigi, 90k:01043**

Tromba, Anthony *see* **Hildebrandt, Stefan, 90k:00007**

Young, Laurence C. Remarks and personal reminiscences. **90k:01025**

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 49–04

Evtushenko, Yu. G. (*with* Mazurik, V. P.) ★ Программное обеспечение систем оптимизации. (Russian) [Software for optimization systems] (Not in MR)

Mazurik, V. P. *see* **Evtushenko, Yu. G.**, (Not in MR)

49–06 Proceedings, conferences, etc.

(Berdyshev, Yu. I.) *see* **Nonsmooth problems of optimization and control, 90g:49002**

(Chentsov, A. G.) *see* **Nonsmooth problems of optimization and control, 90g:49002**

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Nonsmooth problems of optimization and control ★ Негладкие задачи оптимизации и управление. (Russian) [Nonsmooth problems of optimization and control] **90g:49002**

Items with secondary classifications in 49–06

(Clarke, F. H.) *see* **Nonsmooth optimization and related topics, 90i:93003**

(Colombini, Ferruccio) *see* **Partial differential equations and the calculus of variations, 90j:00010** *and* **90j:00011**

(De Giorgi, E.) *see* **Partial differential equations and the calculus of variations, 90j:00010** *an* **90j:00011**

(Dem′yanov, V. F.) *see* **Nonsmooth optimization and related topics, 90i:93003**

(Deng, Zong Qi) *see* **Ordinary differential equations and control theory, 90j:34001**

(Giannessi, F.) *see* **Nonsmooth optimization and related topics, 90i:93003**

(Hiriart-Urruty, Jean-Baptiste) *see* **Trends in mathematical optimization, 90f:90003**

(Hoffmann, Karl-Heinz^{1}) *see* **Trends in mathematical optimization, 90f:90003**

(Lemaréchal, Claude) *see* **Trends in mathematical optimization, 90f:90003**

(Liang, Zhao Jun) *see* **Ordinary differential equations and control theory, 90j:34001**

(Liao, Xiao Xin) *see* **Ordinary differential equations and control theory, 90j:34001**

(Marino, Antonio) *see* **Partial differential equations and the calculus of variations, 90j:0001** *and* **90j:00011**

(Modica, Luciano) *see* **Partial differential equations and the calculus of variations, 90j:0001** *and* **90j:00011**

(Pachter, M.) *see* **Pursuit-evasion differential games, 90a:90250**

(Spagnolo, Sergio) *see* **Partial differential equations and the calculus of variations, 90j:0001** *and* **90j:00011**

(Wu, Ke Qian) *see* **Ordinary differential equations and control theory, 90j:34001**

(Yavin, Y.) *see* **Pursuit-evasion differential games, 90a:90250**

(Zowe, J.) *see* **Trends in mathematical optimization, 90f:90003**

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Conference:

Optimization ★ Trends in mathematical optimization. **90f:90003**

Ordinary Differential Equations and Control Theory ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] **90j:340**

Erice ★ Nonsmooth optimization and related topics. **90i:93003**

Irsee ★ Trends in mathematical optimization. **90f:90003**

Nonsmooth optimization and related topics ★ Nonsmooth optimization and related topics. **90i:93003**

Ordinary differential equations and control theory ★ Chang weifen fangcheng yu kongzhi l (Chinese) [Ordinary differential equations and control theory] **90j:34001**

Partial differential equations and the calculus of variations ★ Partial differential equations and the calculus of variations. Vol. I. **90j:00010**

— ★ Partial differential equations and the calculus of variations. Vol. II. **90j:00011**

Pursuit-evasion differential games ★ Pursuit-evasion differential games. II. **90a:90250**

School:

Nonsmooth Optimization and Related Topics ★ Nonsmooth optimization and related topics. **90i:93003**

Special Issue:

Pursuit-evasion differential games ★ Pursuit-evasion differential games. II. **90a:90250**

Trends in mathematical optimization ★ Trends in mathematical optimization. **90f:90003**

Wuhan ★ Chang weifen fangcheng yu kongzhi lun. (Chinese) [Ordinary differential equations and control theory] **90j:34001**

49Axx Existence theory for optimal solutions

49A05 Free problems in one independent variable

Cesari, Lamberto (*with* Pucci, Patrizia) Remarks on discontinuous optimal solutions for simple integrals of the calculus of variations. **90h:49002**

Clarke, F. H. (*with* Loewen, P. D.) Variational problems with Lipschitzian minimizers. **90k:49003**

Loewen, P. D. *see* **Clarke, F. H., 90k:49003**

Morozov, S. F. Discontinuous solutions of a class of problems of the calculus of variations. (Russian) **90g:49003**

Pucci, Patrizia *see* **Cesari, Lamberto, 90h:49002**

49A10 Problems involving ordinary differential equations, optimal control

Ahangar, Reza Nonanticipating dynamical model and optimal control. **90a:49003**

Balachandran, Krishnan Existence of optimal control for nonlinear multiple-delay systems. **90c:49001**

Berbyuk, V. E. The use of first integrals in the problem of the optimal control of a linear system with a quadratic functional. (Russian) **90a:49004**

Goebel, Manfred (*with* Raĭtum, U. Ė.) Extension of optimal control problems. (Russian) **90i:49002**

Janković, Vladimir The linear optimal control problem with variable endpoints. (Not in MR)

Kaczorek, Tadeusz The linear-quadratic optimal regulator for singular 2-D systems with variable coefficients. **90b:49006**

Kirichenko, S. B. Optimal impulse correction. **90j:49001**

Kogan, Jacob Existence of minimizers and "complete figure" in linear-quadratic problems of optimal control. **90h:49003**

Kowolik, Jan On the existence of optimal controls in antagonistic control systems. (Polish. English summary) **90k:49004**

Miller, B. M. Optimization of dynamical systems with generalized control. **90i:49003**

Motreanu, D. Generic finiteness in solving optimal control problems. **90a:49005**

Raĭtum, U. Ė. *see* **Goebel, Manfred, 90i:49002**

Vaĭsfel′d, V. A. A stepwise algorithm for finding the optimal trajectory in optimal control problems with phase constraints. **90a:49006**

Items with secondary classifications in 49A10

Borisov, V. F. (*with* Zelikin, M. I.) Regimes with switchings that become more frequent in a problem of the control of a robot. **90d:49006**

Colonius, F. (*with* Kliemann, W.) Infinite time optimal control and periodicity. **90c:49068**

Goh, C. J. (*with* Teo, Kok-Lay) Species preservation in an optimal harvest model with random prices. **90j:92034**

Gorelik, S. B. (*with* Kalinin, A. I.) The perturbation method for the optimization of linear systems of neutral type with small delay. (Russian) (*see* **90m:93001**)

Gusar, V. V. (*with* Kibenko, A. V.) On a control problem on the semi-axis. (Russian) **90g:93050**

Huang, Lin (*with* Li, Zhong) Fundamental theorem for optimal output feedback problem with quadratic performance criterion. (Not in MR)

Kalinin, A. I. *see* **Gorelik, S. B., (90m:93001)**

Kibenko, A. V. *see* **Gusar, V. V., 90g:93050**

Kliemann, W. *see* **Colonius, F., 90c:49068**

Lee, Sung J. (*with* Nashed, M. Z.) Constrained least-squares solutions of linear inclusions and singular control problems in Hilbert spaces. **90c:49006**

Li, Zhong *see* **Huang, Lin,** (Not in MR)

Nashed, M. Z. *see* **Lee, Sung J., 90c:49006**

Orlov, Yu. V. ★ Теория оптимальных систем с обобщенными управлениями. (Russian) [Theory of optimal systems with generalized controls] **90a:49002**

— A problem on the optimal control of delays. I. **90i:34121**

Ouyang, Liang A class of optimal feedback control systems on an infinite interval. (Chinese. English summary) **90j:93018**

Pan, Wei An inverse problem of linear optimal control. (Chinese. English summary) **90m:49027**

Pugliese, Andrea Optimal resource allocation in perennial plants: a continuous-time model. **90a:92022**

Revenko, V. V. *see* **Zavalishchin, S. T., 90e:81031**

Rudolph, Helmut Näherungslösungen für eine Klasse von Steuerproblemen mit gemischten Restriktionen. (English summary) [Approximate solutions for a class of control problems with mixed restrictions] **90c:49065**

Teo, Kok-Lay *see* **Goh, C. J., 90j:92034**

Trentelman, H. L. The regular free-endpoint linear quadratic problem with indefinite cost. **90i:49041**

Wyderka, Zdzisław Linear differential equations with measures as coefficients and the control theory. (Russian and Czech summaries) **90c:34005**

Zavalishchin, S. T. (*with* Revenko, V. V.) Optimization of the kinetic energy of a micro-object. (Russian) **90e:81031**

Zelikin, M. I. *see* **Borisov, V. F., 90d:49006**

49A21 Free problems in two or more independent variables

Alt, Hans Wilhelm On shape optimization of a turbine blade. **90a:49007**

Ambrosio, L. A compactness theorem for a new class of functions of bounded variation. (Italian summary) **90k:49005**

Bauman, Patricia (*with* Phillips, Daniel) A nonconvex variational problem related to change of phase. **90i:49004**

Boccardo, Lucio (*with* Schianchi, R.) A remark on the L^s-regularity of the minima of functionals of the calculus of variations. **90f:49001**

Brandi, Primo *see* **Cesari, Lamberto; et al., 90e:49002**

Carriero, M. *see* **De Giorgi, E.; et al., 90j:49002**

Cesari, Lamberto (*with* Brandi, Primo; Salvadori, Anna) Existence theorems for multiple integrals of the calculus of variations for discontinuous solutions. **90e:49002**

Clarke, F. H. (*with* Vinter, R. B.) A regularity theory for variational problems with higher order derivatives. **90k:49006**

De Giorgi, E. (*with* Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. **90j:49002**

Guseĭnov, F. V. Extension of multidimensional variational problems, and regular minimizing sequences. (Russian. English and Azerbaijani summaries) (Not in MR)

Jian, Huai Yu A class of variational problems for multiple integrals. (Chinese. English summary) **90a:49008**

Leaci, A. *see* **De Giorgi, E.; et al., 90j:49002**

Leizarowitz, Arie (*with* Mizel, Victor J.) One-dimensional infinite-horizon variational problems arising in continuum mechanics. **90b:49007**

Mizel, Victor J. *see* **Leizarowitz, Arie, 90b:49007**

Phillips, Daniel *see* **Bauman, Patricia, 90i:49004**

Salvadori, Anna *see* **Cesari, Lamberto; et al., 90e:49002**

Schianchi, R. *see* **Boccardo, Lucio, 90f:49001**

Vinter, R. B. *see* **Clarke, F. H., 90k:49006**

Zhang, Cheng Dian ★ Calculus of variations with multiple integration. **90g:49004**

Items with secondary classifications in 49A21

Bangert, V. On minimal laminations of the torus. (French summary) **90e:58021**

Caffarelli, Luis A. A Harnack inequality approach to the regularity of free boundaries. II. Flat free boundaries are Lipschitz. **90b:35246**

Dierkes, Ulrich A classification of minimal cones in $\mathbf{R}^n \times \mathbf{R}^+$ and a counterexample to interior regularity of energy minimizing functions. **90h:49032**

Esteban, Maria J. (*with* Lions, P.-L.) Γ-convergence and the concentration-compactness method for some variational problems with lack of compactness. (French summary) **90a:49016**

Fonseca, I. (*with* Tartar, L.) The displacement problem for elastic crystals. **90m:73029**

Kuzin, I. A. Existence of a ground state for some nonlinear scalar fields. **90k:35093**

Lions, P.-L. *see* **Esteban, Maria J., 90a:49016**

Mascolo, E. Some remarks on nonconvex problems. **90b:49022**

Strugov, Yu. F. Existence of extremal mappings onto a cube. (Russian) **90k:30037**

Tartar, L. *see* **Fonseca, I., 90m:73029**

49A22 Problems involving partial differential equations, optimal control

Avgerinos, Evgenios P. (*with* Papageorgiou, Nikolaos S.) Infinite horizon optimal control problems for semilinear evolution equations. **90j:49003**

Chen, Yun Feng An optimal control problem for a composite distributed parameter system. (Chinese. English summary) **90a:49009**

Dzhenaliev, M. T. Optimal control of linear loaded parabolic equations. **90g:49005**

Hlaváček, Ivan Shape optimization of elastic axisymmetric bodies. (Russian and Czech summaries) **90e:49003**

Kerimov, A. K. Sufficient conditions for optimality in an extremal problem with a free boundary. (Russian) **90d:49001**

Kowalewski, Adam Boundary control of distributed parabolic system with boundary condition involving a time-varying lag. **90a:49010**

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49A36 Optimal solutions belonging to restricted classes (bang-bang controls, etc.)

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9B05 Free problems in one independent variable

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49B21 Free problems in two or more independent variables

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49B22 Problems involving partial differential equations, optima control

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— Optimal control of a system governed by a parabolic equation with an infinite number variables and time delay. **90k:49021**

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Mansimov, K. B. An analogue of the Gabasov-Kirillova condition and its strengthening for a class of systems with distributed parameters. (Russian. English and Azerbaijani summaries) **90i:49025**

Mardanov, M. Dzh. Necessary conditions for second-order optimality in systems with distributed parameters. (Russian. English and Azerbaijani summaries) **90c:49041**

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Nicolaescu, Liviu I. Optimal control for a nonlinear diffusion equation. **90k:49022**

Nurmuradov, A. Sufficient conditions for the optimality of control in systems of parabol type. (Russian. English summary) **90c:49042**

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Song, Chang Ho The dual solution method of one minimization problem with restriction on gradient of unknown function. II. (Korean. English summary) **90k:49023**
Sumin, M. I. Optimal control of objects that can be described by quasilinear elliptic equations. **90h:49019**
Temam, R. *see* **Abergel, F., 90d:49017**
Terletskiĭ, V. A. *see* **Vasil′ev, O. V., 90c:49043**
Tuĭgunov, K. Necessary conditions for optimality for elliptic systems. (Russian) **90g:49016**
Vasil′ev, O. V. (*with* Terletskiĭ, V. A.) Optimal control of systems of semilinear hyperbolic equations with additional functional constraints. (Russian) **90c:49043**
Yakimenko, I. L. A problem on the optimal control of an electromagnetic field taking into account hysteresis. (Russian) (*see* **90d:00017**)

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Adylova, I. V. Optimal control of a system described by a nonlinear equation of heat conduction without a priori estimates. (Russian) **90j:35032**
Aihara, Shin'ichi (*with* Ishikawa, Masaaki) Optimal control for one-phase Stefan problem with random emission. **90f:93065**
Altan, Ş. Burhanettin *see* **Meriç, R. A., 90c:73014**
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Arumugam, G. (*with* Pironneau, O.) On the problems of riblets as a drag reduction device. **90g:76049**
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Brokate, Martin (*with* Friedman, Avner) Optimal design for heat conduction problems with hysteresis. **90f:93025**
Bruch, J. C., Jr. *see* **Sloss, J. M.; et al., 90f:73020**
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Chan, W. L. (*with* Guo, Bao Zhu) Optimal birth control of population dynamics. **90k:92036**
Destuynder, Philippe Remarques sur le contrôle de la propagation des fissures en régime stationnaire. (English summary) [Remarks on a crack propagation control for stationary loaded structures] **90c:73099**
Dzhenaliev, M. T. Optimal control of linear loaded parabolic equations. **90g:49005**
Erfurth, Horst (*with* Handschug, Michael) Eine notwendige Bedingung für ein Vektoroptimum bei speziellen Steuerproblemen. (English and Russian summaries) [A necessary condition for a vector optimum in special control problems] **90a:49022**
Fomenko, A. V. ★ Приближенный синтез оптимального управления распределенными системами. (Russian) [Approximate design of optimal control of distributed systems] **90i:93071**
Fomin, M. N. *see* **Talanchuk, P. M.; et al., 90b:93055**
Friedman, Avner *see* **Brokate, Martin, 90f:93025**
Guo, Bao Zhu *see* **Chan, W. L., 90k:92036**
Handschug, Michael *see* **Erfurth, Horst, 90a:49022**
Hoffmann, Karl-Heinz[1] Steuerung freier Ränder. [Control of free boundaries] **90g:49001**
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Kerimov, A. K. Sufficient conditions for optimality in an extremal problem with a free boundary. (Russian) **90d:49001**
Kowalewski, Adam Boundary control of distributed parabolic system with boundary condition involving a time-varying lag. **90a:49010**
Łędzewicz-Kowalewska, Urszula On some optimal control problems of differential equations with additional equality constraints. **90g:49014**
Luo, Zheng Hua *see* **Sakawa, Yoshiyuki, 90g:73087**
Meriç, R. A. (*with* Altan, Ş. Burhanettin) Optimal control of memory dependent nonlocal elastic solids. **90c:73014**
Oden, J. Tinsley *see* **White, Luther, 90e:73119**
Pironneau, O. *see* **Arumugam, G., 90g:76049**
Popescu, Vasile ★ Control optimal pentru ecuaţii de evoluţie. (Romanian) [Optimal control for evolution equations] **90k:49002**
Sadek, I. S. *see* **Sloss, J. M.; et al., 90f:73020**
Sakawa, Yoshiyuki (*with* Luo, Zheng Hua) Modeling and control of coupled bending and torsional vibrations of flexible beams. **90g:73087**
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Serovaĭskiĭ, S. Ya. A regularization method in the sense of A. N. Tikhonov in a problem of the optimal control of a nonlinear parabolic system. **90c:49058**
Šestak, Ivan J. Optimal heating of composite stick's arbitrary cross section. (Slovenian summary) **90e:80012**
Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, I. S.) A maximum principle for nonconservative selfadjoint systems. **90f:73020**
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Tiba, D. Optimal control for semilinear hyperbolic boundary value problems. **90j:35034**
White, Luther (*with* Oden, J. Tinsley) Dynamics and control of viscoelastic solids with contact and friction effects. **90e:73119**
Yagubov, G. Ya. *see* **Iskenderov, A. D., 90k:81074**

49B27 Problems in abstract spaces

Avakov, E. R. Necessary conditions for a minimum for nonregular problems in Banach spaces. The maximum principle for abnormal optimal control problems. (Russian) **90a:49025**
— Necessary conditions for an extremum for smooth abnormal problems with constraints of equality and inequality type. **90k:49024**
Basile, N. (*with* Mininni, M.) An extension of the maximum principle for a class of optimal control problems in infinite-dimensional spaces. (*see* **90m:93004**)
Chakraborty, Gargi On the existence for a class of optimal control problems. **90g:49017**
Fattorini, H. O. Constancy of the Hamiltonian in infinite-dimensional control problems. (*see* **90h:00012**)
Furukawa, Nagata (*with* Yoshinaga, Yuji) Higher-order variational sets, variational derivatives and higher-order necessary conditions in abstract mathematical programming. **90b:49038**
Kuprava, T. K. A condition of nondegeneracy for the maximum principle for controllable systems with prehistory. (Russian. English and Georgian summaries) (Not in MR)
Łędzewicz-Kowalewska, Urszula Tangent directions for a class of nonlinear evolution equations. **90c:49044**
— A necessary and sufficient condition for Altman's maximal element problem for constraint sets with many equalities. **90c:49045**
Matveev, A. S. Problems of optimal control with delays of general type and with phase constraints. **90a:49026**
Mininni, M. *see* **Basile, N., (90m:93004)**
Nakonechnyĭ, A. G. (*with* Rusnak, N. A.) Controlling observations in problems of minimax estimation for solutions of variational equations in Hilbert spaces. (Russian) **90k:49025**
Páles, Z. A generalization of the Dubovitskiĭ-Milyutin separation theorem for commutative semigroups. **90e:49031**
Panchenkov, A. N. Extremal boundary layers. (Russian) **90g:49018**
Reiland, Thomas W. Generalized differentiability for a class of nondifferentiable operators with applications to nonsmooth optimization. **90j:49014**
Rusnak, N. A. *see* **Nakonechnyĭ, A. G., 90k:49025**
Scheffler, H.-P. (*with* Schirotzek, W.) Necessary optimality for nonsmooth problems with operator constraints. (German and Russian summaries) **90k:49026**
Schirotzek, W. *see* **Scheffler, H.-P., 90k:49026**
Serovaĭskiĭ, S. Ya. Quasiconjugate systems and necessary conditions for optimality in nonlinear infinite-dimensional systems. (Russian) **90j:49015**
Song, Wen The optimal control problem for initial values of linear evolution equations in a Banach space. (Chinese. English summary) **90i:49026**
Tudor, Constantin Optimal control for an infinite-dimensional periodic problem under white noise perturbations. **90m:49015**
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Benkert, F. On the number of stable local minima of some functionals. (German and Russian summaries) **90e:90144**
Breckner, Wolfgang W. (*with* Kolumbán, Iosif) A multiplier rule for constrained optimization problems containing state and control variables. **90a:90164**
Chan, W. L. (*with* Ho, Lop Fat) Optimal control of the Laplace equation with Cauchy data as control variables. **90g:49015**
Dzhgarkava, D. T. The space of interrupted functions and its applications. (Russian) **90b:46060**
Elster, Karl-Heinz (*with* Thierfelder, J.) Abstract cone approximations and generalized differentiability in nonsmooth optimization. **90f:90153**
Frankowska, Halina Estimations a priori pour les inclusions différentielles opérationnelles. (English summary) [A priori estimates for operational differential inclusions] **90e:34023**
Giannessi, F. Semidifferentiable functions and necessary optimality conditions. **90e:90145**
Goebel, Manfred On control problems for a quasilinear second order ordinary differential equation. **90i:49020**
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Ioffe, Alexandre D. On some recent developments in the theory of second order optimality conditions. **90m:90300**
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Ivanenko, V. I. (*with* Mel′nik, V. S.) ★ Вариационные методы в задачах управления для систем с распределенными параметрами. (Russian) [Variational methods in control problems for systems with distributed parameters] **90a:49001**
Khachatryan, R. A. (*with* Arutyunyan, V. V.) Cones of tangential directions in problems with operator constraints. (Russian. Armenian summary) **90e:49018**
— The intersection of tents in a Hilbert space, and necessary conditions of the extremum for nonsmooth functions. **90a:90213**
Kolumbán, Iosif *see* **Breckner, Wolfgang W., 90a:90164**
Korytov, S. G. On the theory of the maximum principle. (Russian) **90f:90154**
Łędzewicz-Kowalewska, Urszula Application of the global linearization iterative methods to general optimal control problems in Banach spaces. (*see* **90j:00016**)
Lee, Sung J. (*with* Nashed, M. Z.) Constrained least-squares solutions of linear inclusions and singular control problems in Hilbert spaces. **90c:49006**
Mel′nik, V. S. Nonconvex optimization problems for quasilinear distributed-parameter systems. **90a:90214**
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Nashed, M. Z. *see* **Lee, Sung J., 90c:49006**
Papageorgiou, Nikolaos S. Optimal control problems for a class of nonlinear evolution equations. **90c:93059**
Pytlak, Radosław Discrete maximum principle for problems with Lipschitzian functions. **90c:49049**
Smart, I. Invexity in nonlinear programs and control problems. **90i:90093**
Studniarski, M. A simple derivation of sufficient conditions for a local minimum of a Lipschitzian function. **90k:90142**
Thierfelder, J. *see* **Elster, Karl-Heinz, 90f:90153**

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Warga, J. Higher-order conditions for conical controllability. **90d:49028**

Weidner, Petra On the characterization of efficient points by means of monotone functionals. **90a:90192**

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49B34 Problems involving functional relations other than differential equations

Abuladze, A. A. Optimal control problems with integral equations of Hammerstein type in Banach spaces. (Russian. English and Georgian summaries) **90c:49046**

Dimitrov, Ĭ. P. (*with* Georgiev, G. S.) Necessary conditions for optimality of differential-recurrent systems. (Bulgarian. English and Russian summaries) (Not in MR)

Georgiev, G. S. *see* **Dimitrov, Ĭ. P.**, (Not in MR)

Goldberg, Helmuth (*with* Tröltzsch, F.) Second order optimality conditions for a class of control problems governed by nonlinear integral equations with application to parabolic boundary control. **90j:49016**

Ibrahim, Essam Y. (*with* Lovass-Nagy, V.; Schilling, Robert J.) Open-loop optimal control of linear time-invariant systems containing the first derivative of the input. **90d:49019**

Isaev, K. V. Optimal control of discrete-continuous systems. (Russian) **90e:49032**

Khrustalev, M. M. Global optimality conditions for controlled noninertial systems with delays. (Russian and Polish summaries) **90f:49023**

Lin, Jing Yue (*with* Yang, Zi Hou) On the time-optimal control problem for singular systems. **90c:49047**

— (*with* Yang, Zi Hou) Optimal processes with phase constraints for singular systems. (*see* **90m:93004**)

— (*with* Yang, Zi Hou) A discrete optimal control problem for descriptor systems. **90c:49048**

— (*with* Yang, Zi Hou) Mathematical control theory of singular systems. (Not in MR)

Lovass-Nagy, V. *see* **Ibrahim, Essam Y.; et al., 90d:49019**

Nitka-Styczeń, Krystyna Approximate discrete maximum principle for the difference approximation of optimal periodic control problems. **90m:49016**

Pytlak, Radosław Discrete maximum principle for problems with Lipschitzian functions. **90c:49049**

Schilling, Robert J. *see* **Ibrahim, Essam Y.; et al., 90d:49019**

Sumin, M. I. Optimal control of discontinuous dynamical systems with sliding states. **90i:49027**

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Doležal, Jaroslav Necessary conditions for Pareto optimality in nondifferentiable discrete control problems. (Russian and Polish summaries) **90c:49025**

Es'kova, V. A. Pareto optimal solutions in a problem of the optimal control of an ecologically closed region. (Russian) (*see* **90k:00028**)

Gripenberg, Gustaf Optimal control and integral equations. **90i:93074**

Hough, Michael E. Explicit guidance along an optimal space curve. **90f:93048**

Ilyutovich, A. E. Decomposition of the choice of possible direction in the problem of discrete-time optimal control. (Not in MR)

Komarnitskiĭ, A. L. An extremal problem with convolutions and fractional-exponential weight. (Russian. English summary) **90d:93042**

Lin, Jing Yue (*with* Yang, Zi Hou) Optimal processes with phase constraints for singular systems. (*see* **90m:00037**)

Loewen, P. D. (*with* Clarke, F. H.; Vinter, R. B.) Differential inclusions with free time. (French summary) **90b:49054**

Mardanov, M. Dzh. Necessary conditions for second-order optimality in systems with distributed parameters. (Russian. English and Azerbaijani summaries) **90c:49041**

Mordukhovich, B. Sh. An approximate maximum principle in finite-difference control systems. (Russian) **90e:49035**

Rockafellar, R. T. Multistage convex programming and discrete-time optimal control. (Russian and Polish summaries) **90c:49029**

Vinter, R. B. *see* **Loewen, P. D.; et al., 90b:49054**

Yang, Zi Hou *see* **Lin, Jing Yue, (90m:00037)**

Zeng, Xiao Jun (*with* Zheng, Ying Ping) The solvability of dynamic LQG team decision problems with nonnested information structure. I. (Chinese. English summary) **90k:90086**

Zheng, Ying Ping *see* **Zeng, Xiao Jun, 90k:90086**

49B36 Optimal solutions belonging to restricted classes

Afanas'ev, A. P. Bilinear antisymmetric form in optimal control problem. (*see* **90j:00015**)

Borisov, V. F. Construction of optimal synthesis with a chattering mode. **90e:49033**

— *see also* **Zelikin, M. I., 90j:49017**

Encheva, T. I. (*with* Levin, A. Yu.) Zeros of quasi-polynomials and linear time-optimal control problem. **90d:49020**

Hong, Chin Ming (*with* Wu, Yung Ch'un) Design of equal excursion sliding regime. **90c:49050**

Jurdjevic, V. The generalized maximum principle and the singular problem. (*see* **90m:93004**)

Khaĭlov, E. N. On the behavior of switching times in a linear time-optimality problem. **90h:49020**

Ławrynowicz, Julian (*with* Pełczewski, Władysław) On time-optimal control of linear plant with disturbances and unsymmetrical bounds for the optimal control signal. (Polish summary) **90m:49017**

Levin, A. Yu. *see* **Encheva, T. I., 90d:49020**

Mansimov, K. B. Optimality of singular controls in Goursat-Darboux systems under inequality-type constraints. (Russian. English and Azerbaijani summaries) (Not in MR)

Nowakowski, Andrzej Field theories in the modern calculus of variations. **90a:49027**

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Rossana, Robert J. *see* **Tomiyama, Ken, 90f:49024**

Schättler, H. Regularity properties of time-optimal trajectories of an analytic single-input control-linear system in dimension three. **90a:49028**

Shinar, J. State-dependent optimality of a singular subarc. **90c:49051**

Sontag, Eduardo D. Remarks on the time-optimal control of a class of Hamiltonian systems (*see* **90m:93004**)

Tomiyama, Ken (*with* Rossana, Robert J.) Two-stage optimal control problems with an explicit switch point dependence: optimality criteria and an example of delivery lags and investment. **90f:49024**

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Anderson, Norman (*with* Arthurs, A. M.; Walsh, G. R.) Technical comment: "On the variational process in parameter optimization" [J. Optim. Theory Appl. **56** (1988), no. 1, 31–38; MR 89d:90190] by D. G. Hull. **90f:90138**

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Baker, Daniel R. Exact solutions to some minimum time problems with inequality state constraints. **90h:49012**

Barcenas, Diomedes (*with* Leiva, Hugo) Controllability with restrictions in Banach spaces. (Spanish. English summary) **90j:93014**

Bilimoria, Karl D. (*with* Cliff, Eugene M.) Singular trajectories in airplane cruise-dash optimization. (Not in MR)

Cliff, Eugene M. *see* **Bilimoria, Karl D.**, (Not in MR)

Collins, William D. *see* **Sissaoui, H.; et al., 90a:93044**

Dong, Qun Ming On second-order sufficient conditions for $C^{1,1}$ function minimization and a further discussion on the Hiriart-Urruty problem. (Chinese. English summary) **90d:90072**

Fraser-Andrews, G. Finding candidate singular optimal controls: a state of the art survey. **90b:49004**

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Hoàng Xuân Phú A solution method for regular optimal control problems with state constraints. **90i:49022**

(Hull, D. G.) *see* **Anderson, Norman; et al., 90f:90138**

Israilov, I. I. (*with* Umarov, B. R.) An algorithm for solving a problem of terminal control of the minimum of maximal deviation of trajectories of linear systems. (Russian) **90h:49014**

Kelley, Henry J. *see* **Kumar, Renjith, 90d:49014**

Kumar, Renjith (*with* Kelley, Henry J.) Singular optimal atmospherical rocket trajectories. **90d:49014**

Leiva, Hugo *see* **Barcenas, Diomedes, 90j:93014**

Meeker, L. David Local time-optimal feedback control of strictly normal two-input linear systems. **90b:49057**

Metz, D. (*with* Williams, Daniel E.) Near time-optimal control of racing vehicles. **90m:93087**

Nicolaescu, Liviu I. Optimal control for a nonlinear diffusion equation. **90k:49022**

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— Optimal control problems for a class of nonlinear evolution equations. **90c:93059**

Sissaoui, H. (*with* Collins, William D.; Harley, P. J.) The numerical solution of the linear regulator problem with positive control. **90a:93044**

Souza, Marcelo Lopes de Oliveira e Exactly solving the weighted time/fuel optimal control of an undamped harmonic oscillator. **90b:49017**

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Williams, Daniel E. *see* **Metz, D., 90m:93087**

Wu, Han Sheng First-order and second-order necessary conditions for optimality of singular controls. **90e:49028**

49B40 Minimax problems

Anisovich, V. V. Design of optimal control in a minimax problem. (Not in MR)

Bucy, R. S. (*with* Namiri, M. K.; Velman, J. R.) Minimax control. (Not in MR)

Fujita, Masayuki *see* **Uchida, Kenko, 90k:49027**

Krasovskiĭ, N. N. (*with* Reshetova, T. N.) On the program synthesis of a guaranteed control. (Russian summary) **90a:49029**

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Nguyễn Chân Support method for solving a linear minimax problem of optimal control. **90j:49018**

Nikol'skiĭ, M. S. A minimax control problem. (Russian) **90b:49039**

Reshetova, T. N. *see* **Krasovskiĭ, N. N., 90a:49029**

Uchida, Kenko (*with* Fujita, Masayuki) On the central controller: characterizations via differential games and LEQG control problems. **90k:49027**

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Yafrakov, M. F. Control of a dynamical system with intermediate conditions. (Russian) **90k:49028**

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Azé, D. Rate of convergence for the saddle points of convex-concave functions. **90k:90119**

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Khoteev, A. L. A minimax problem for integro-differential equations of Barbashin type. (Russian) (*see* **90m:93001**)

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Martein, Laura Some results on regularity in vector optimization. **90k:90155**
Novikova, N. M. A method for searching for a stochastic saddle point. (Russian) **90c:90202**
Porosiński, Z. (*with* Szajowski, K.) A minimax control of a linear system. (German and Russian summaries) **90m:93138**
Pyatnitskiĭ, E. S. *see* **Bogatyreva, N. A., 90e:70021**
Sebestyén, Z. A general minimax inequality and its consequences. **90e:90148**
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Tsyganok, L. V. Sufficient conditions for approximation with respect to the functional for a class of minimax problems. (Russian) **90f:90165**
Urdaneta, A. J. (*with* Chankong, V.) A multiobjective minimax approach to controller settings for systems running under disturbances. (Not in MR)

49B50 Sensitivity of optimal solutions in the presence of perturbations

Basha, Akiel E. *see* **Mirza, Kais Baker, 90m:49018**
Chankong, V. *see* **Urdaneta, A. J.,** (Not in MR)
Colonius, F. Asymptotic behaviour of optimal control systems with low discount rates. **90e:49034**
Djavdan, P. (*with* Tulleken, H. J. A. F.; Voetter, M. H.; Verbruggen, H. B.; Olsder, Geert Jan) Probabilistic robust controller design. (*see* **90m:93004**)
Fujita, Masayuki (*with* Uchida, Kenko; Matsumura, Fumio) Gain perturbation tolerance in H^∞ state feedback control. **90k:49029**
Gasanov, Z. M. Approximate time-optimal control of a mass transport process. (Russian) (*see* **90d:00017**)
Hejmo, Władysław (*with* Kloch, Jacenty) On the perturbations in a time-optimal closed-loop system. **90k:49030**
Kloch, Jacenty *see* **Hejmo, Władysław, 90k:49030**
Kuo, Tê Shêng *see* **Wang, Shêng Tê, 90k:49031**
Malanowski, Kazimierz Sensitivity analysis of convex optimization problems. (*see* **90h:00012**)
Matsumura, Fumio *see* **Fujita, Masayuki; et al., 90k:49029**
Mirza, Kais Baker (*with* Basha, Akiel E.) Structural and robust optimality of discrete-time optimal regulators. **90m:49018**
Nistri, P. A note on the approximability property of nonlinear variable structure systems. (*see* **90m:93004**)
Olsder, Geert Jan *see* **Djavdan, P.; et al., (90m:93004)**
Sineglazov, V. M. Analysis of the sensitivity of time-optimal systems for the control of objects with distributed parameters. (Russian) (Not in MR)
Tesi, A. *see* **Vicino, A., 90m:49019**
Tulleken, H. J. A. F. *see* **Djavdan, P.; et al., (90m:93004)**
Uchida, Kenko *see* **Fujita, Masayuki; et al., 90k:49029**
Urdaneta, A. J. (*with* Chankong, V.) A multiobjective minimax approach to controller settings for systems running under disturbances. (Not in MR)
Verbruggen, H. B. *see* **Djavdan, P.; et al., (90m:93004)**
Vicino, A. (*with* Tesi, A.) Robustness bounds for classes of structured perturbations. **90m:49019**
Voetter, M. H. *see* **Djavdan, P.; et al., (90m:93004)**
Wang, Jian Liang Optimally robust output feedback control for SISO nonlinear systems. (*see* **90m:93004**)
Wang, Shêng Tê (*with* Kuo, Tê Shêng) Performance bounds of optimal linear systems with uncertain parameters. **90k:49031**

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Apkarian, P. (*with* Champetier, Calixte; Magni, J.-F.) Design of a helicopter output feedback control law using modal and structured-robustness techniques. (Not in MR)
Artstein, Zvi Rapid oscillations, chattering systems, and relaxed controls. **90g:49024**
Champetier, Calixte *see* **Apkarian, P.; et al.,** (Not in MR)
Ch'ên, Po Hsien (*with* Dong, Tay Yuh) LQG optimal control system design under plant perturbation and noise uncertainty: a state-space approach. **90e:49037**
Dempe, S. On the directional derivative of the optimal solution mapping without linear independence constraint qualification. **90m:90269**
Dong, Tay Yuh *see* **Ch'ên, Po Hsien, 90e:49037**
Feng, De Xing (*with* Zhang, Bing Yu) Optimal control of elliptic equations and domain perturbation. (Chinese. English summary) **90d:93041**
Gómez Fernández, Juan Alfredo (*with* Rozsa, Roberto) Sensitivity of the optimum value with respect to the delay in a control problem. (Spanish. English summary) **90g:93037**
Hartmann, Irmfried (*with* Lange, Werner; Poltmann, Rainer) ★ Robust and insensitive design of multivariable feedback systems—multimodel design. **90h:93002**
Higuchi, Tatsuo *see* **Iwatsuki, Masami; et al.,** (Not in MR)
Itskovskiĭ, M. V. (*with* Nadiradze, Z. N.; Spivakovskiĭ, V. B.) On a time-optimality problem. (Russian) (*see* **90d:00017**)
Iwatsuki, Masami (*with* Kawamata, Masayuki; Higuchi, Tatsuo) Statistical sensitivity and minimum sensitivity structures with fewer coefficients in discrete time linear systems. (Not in MR)
Kawamata, Masayuki *see* **Iwatsuki, Masami; et al.,** (Not in MR)
Khargonekar, Pramod P. (*with* Poolla, Kameshwar) Robust control of linear time-invariant plants using switching and nonlinear feedback. (*see* **90m:93004**)
Lange, Werner *see* **Hartmann, Irmfried; et al., 90h:93002**
Lobok, A. P. *see* **Nakonechnyĭ, A. G., 90c:35131**
Magni, J.-F. *see* **Apkarian, P.; et al.,** (Not in MR)
Megiddo, Nimrod Pathways to the optimal set in linear programming. **90c:90147**
Nadiradze, Z. N. *see* **Itskovskiĭ, M. V.; et al., (90d:00017)**
Nakonechnyĭ, A. G. (*with* Lobok, A. P.) Optimization of the domain of admissible perturbations in systems with distributed parameters when the measurements are inexact. (Russian) **90c:35131**
Pesch, Hans Josef Real-time computation of feedback controls for constrained optimal control problems. I. Neighbouring extremals. **90g:93042**
Poltmann, Rainer *see* **Hartmann, Irmfried; et al., 90h:93002**
Poolla, Kameshwar *see* **Khargonekar, Pramod P., (90m:93004)**
Rao, Murali (*with* Sokołowski, J.) Shape sensitivity analysis of state constrained optimal control problems for distributed parameter systems. **90f:49006**
Rech, C. Robustness of interconnected systems to structural disturbances in structural controllability and observability. (Not in MR)
Revalski, J. P. An equivalence relation between optimization problems connected with the well-posedness. **90c:90239**
Rozsa, Roberto *see* **Gómez Fernández, Juan Alfredo, 90g:93037**
Sokołowski, J. *see* **Rao, Murali, 90f:49006**
Spivakovskiĭ, V. B. *see* **Itskovskiĭ, M. V.; et al., (90d:00017)**
Vicino, A. Robustness of pole location in perturbed systems. **90c:93049**
Zhang, Bing Yu *see* **Feng, De Xing, 90d:93041**
Zolésio, J.-P. Shape derivatives and shape acceleration. **90e:49005**

49B60 Optimal stochastic control [see also 93Exx]

Boukas, E. K. (*with* Haurie, A.; Michel, Philippe) An optimal control problem with a random stopping time. (Not in MR)
Haurie, A. *see* **Boukas, E. K.; et al.,** (Not in MR)
Liu, Kun Hui An extension of a class of singular discounted cost models. (Chinese. English summary) **90d:49021**
Michel, Philippe *see* **Boukas, E. K.; et al.,** (Not in MR)
Sun, Min An evolutionary monotone follower problem in [0, 1]. **90i:49028**
Trybuła, Stanisław Minimax control of a linear system with multinomial disturbances. (Not in MR)

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Aihara, Shin'ichi (*with* Ishikawa, Masaaki) Optimal control for one-phase Stefan problem with random emission. **90f:93065**
Baĭsakalov, I. B. A stochastic problem of programmed control under conditions of uncertainty. (Russian. Kazakh summary) **90b:93112**
Baras, John S. (*with* Elliott, Robert J.; Kohlmann, Michael) The partially observed stochastic minimum principle. **90m:93133**
Bernstein, Dennis S. Robust stability and performance via fixed-order dynamic compensation. **90c:93088**
Elliott, Robert J. *see* **Baras, John S.; et al., 90m:93133**
Ishikawa, Masaaki *see* **Aihara, Shin'ichi, 90f:93065**
Kohlmann, Michael *see* **Baras, John S.; et al., 90m:93133**
Leizarowitz, Arie Control problems with random and progressively known targets. **90g:49022**
Shchiptsova, R. O. Control of a multidimensional Wiener process with a restriction on the number of switchings. **90i:93140**
Stockbridge, Richard H. Time-average control of martingale problems: the Hamilton-Jacobi-Bellman equation. **90i:93142**
Tudor, Constantin Optimal control for an infinite-dimensional periodic problem under white noise perturbations. **90m:49015**
Zhong, Hu Mian The continuity of the unnormalized conditional distribution measure Λ_t^{YU}. (Chinese. English summary) **90b:93117**

49B99 None of the above, but in this section

Ball, J. M. Singular minimizers and their significance in elasticity. **90f:49025**
Gariepy, Ronald F. A Caccioppoli inequality and partial regularity in the calculus of variations. **90g:49019**
Girko, V. L. (*with* Mysak, R. T.) A theorem on the extremum of a nonnegative bounded function. (Russian) (Not in MR)
Kawohl, Bernhard Continuous symmetrization and related problems. **90i:49029**
Kósa, András (*with* Shamandy, Ali) Discontinuous variational problems of higher order. **90b:49040**
Mysak, R. T. *see* **Girko, V. L.,** (Not in MR)
Shamandy, Ali *see* **Kósa, András, 90b:49040**

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Daneev, A. V. The form of an axisymmetric body that is optimal with respect to conditions of convective heat transfer and wave drag in a supersonic flow for a laminar mode. (Russian) **90d:76035**
Dochev, Docho T. (*with* Zhukovskiĭ, V. I.) Sufficient conditions for P1-optimality with uncertainty. (Bulgarian. English and Russian summaries) **90j:90105**
Dzierzbicka-Mazaraki, Krystyna Les intégrales paramétriques multiples dépendant des dérivées du second ordre. [Multiple parametric integrals that depend on second-order derivatives] **90d:26024**
Pandveè, I. A scheme for the two-level control of a nonlinear discrete-continuous system. (Russian) **90f:93047**
Weinstock, Robert A novel method for solving a class of differential equations. **90k:34081**
Zhukovskiĭ, V. I. *see* **Dochev, Docho T., 90j:90105**

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming [see also 90C39]

49C05 Free problems and problems involving ordinary differential equations

(**Bernhard, Pierre**) *see* **Zeidan, Vera, 90b:49041**
Carlson, Dean Erratum: "Carathéodory-Hamilton-Jacobi theory for nonsmooth problems of Lagrange and problems of optimal control" [J. Math. Anal. Appl. **112** (1985), no. 1, 259–273; MR 87e:49054]. **90m:49020**
Loreti, Paola (*with* Mazzini, Leonardo) Dynamical programming methods in viability theory. (Italian. English summary) **90c:49052**
Mazzini, Leonardo *see* **Loreti, Paola, 90c:49052**

Mirică, Ştefan Invariant sets and monotone functions with respect to the solutions of ordinary differential equations. **90i:49030**

Zeidan, Vera (*with* Zezza, Pier Luigi) Conjugate points and optimal control: counterexamples. Comment on: "The theory of the second variation and the linear-quadratic problem" (French) [*Advances in Hamiltonian systems* (Rome, 1981), 109–142, Birkhäuser Boston, Boston, MA, 1983; MR 85e:49046] by P. Bernhard. **90b:49041**

Zezza, Pier Luigi *see* **Zeidan, Vera, 90b:49041**

Items with secondary classifications in 49C05

Berkovitz, Leonard D. Optimal feedback controls. **90h:49013**

Bloch, Anthony M. *see* **McClamroch, N. Harris, 90a:70036**

Cariñena, José F. (*with* López Lacasta, Carlos; Martínez, Eduardo) A geometric characterisation of Lagrangian second-order differential equations. **90m:58063**

López Lacasta, Carlos *see* **Cariñena, José F.; et al., 90m:58063**

Martínez, Eduardo *see* **Cariñena, José F.; et al., 90m:58063**

McClamroch, N. Harris (*with* Bloch, Anthony M.) Control of constrained Hamiltonian systems and applications to control of constrained robots. **90a:70036**

Nester, James M. Invariant derivation of the Euler-Lagrange equation. **90d:70046**

Pardo, Francisco The Helmholtz conditions in terms of constants of motion in classical mechanics. **90k:70014**

Shinar, J. State-dependent optimality of a singular subarc. **90c:49051**

Stojanovic, Srdjan (*with* Yong, Jiong Min) Optimal switching for partial differential equations. I, II. **90c:49054**

Subbotina, N. N. The maximum principle and the superdifferential of the value function. (Russian summary) **90h:49016**

Yong, Jiong Min *see* **Stojanovic, Srdjan, 90c:49054**

49C10 Free problems and problems involving partial differential equations

Cannarsa, P. Regularity properties of solutions to Hamilton-Jacobi equations in infinite dimensions and nonlinear optimal control. **90c:49053**

Da Prato, G. Some results on periodic solutions of Hamilton-Jacobi equations in Hilbert spaces. **90m:49021**

Egorov, Aleksandr Ivanovich (*with* Kogut, P. I.) Optimal synthesis for an equation of neutral type. (Russian. English summary) **90i:49031**

Iftode, Vasile Hamilton-Jacobi equations and distributed convex control problems. **90i:49032**

Kogut, P. I. *see* **Egorov, Aleksandr Ivanovich, 90i:49031**

Kolokol′tsov, V. N. (*with* Maslov, V. P.) Idempotent analysis as a technique of the theory of control and optimal synthesis. I. **90i:49033**

Lenhart, S. M. Viscosity solutions associated with impulse control problems for piecewise-deterministic processes. **90b:49042**

Maslov, V. P. *see* **Kolokol′tsov, V. N., 90i:49033**

Stojanovic, Srdjan (*with* Yong, Jiong Min) Optimal switching for partial differential equations. I, II. **90c:49054**

Yong, Jiong Min Systems governed by ordinary differential equations with continuous, switching and impulse controls. **90f:49026**

— *see also* **Stojanovic, Srdjan, 90c:49054**

Items with secondary classifications in 49C10

Barbu, Viorel A semigroup approach to Hamilton-Jacobi equation in Hilbert space. (Romanian summary) **90f:47100**

Bardi, Martino A boundary value problem for the minimum-time function. **90i:49034**

Borkar, Vivek S. ★ Optimal control of diffusion processes. **90h:93115**

— "Minimum toll" control of diffusions. **90c:93112**

Cioranescu, Doïna (*with* Donato, Patrizia) Some remarks on the exact controllability in a neighbourhood of the boundary of a perforated domain. **90m:93012**

Donato, Patrizia *see* **Cioranescu, Doïna, 90m:93012**

Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. **90b:49043**

— Hamilton-Jacobi equations: viscosity solutions and generalized gradients. **90f:35018**

Gozzi, Fausto Some results for an infinite horizon control problem governed by a semilinear state equation. **90m:93070**

Lin, E. B. Quantum mechanical control systems. **90c:58059**

Lions, P.-L. Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. I. The case of bounded stochastic evolutions. **90j:35029**

Piunovskiĭ, A. B. General Markov models with the infinite horizon. (Russian summary) **90h:93123**

Rozyev, I. (*with* Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. **90c:90259**

Shreve, Steven E. *see* **Soner, H. Mete, 90h:93124**

Sivaloganathan, J. The generalised Hamilton-Jacobi inequality and the stability of equilibria in nonlinear elasticity. **90g:73064**

Soner, H. Mete (*with* Shreve, Steven E.) Regularity of the value function for a two-dimensional singular stochastic control problem. **90h:93124**

Stockbridge, Richard H. Time-average control of martingale problems: the Hamilton-Jacobi-Bellman equation. **90i:93142**

Subbotin, A. I. A piecewise-linear cost function for a differential game with simple moves. (Russian) **90a:90244**

— *see also* **Rozyev, I., 90c:90259**

Sun, Min An evolutionary monotone follower problem in [0, 1]. **90i:49028**

Tarres, R. Contrôle stochastique ergodique stationnaire non-contraint et conditions asymptotiques de Neumann pour l'équation d'Hamilton-Jacobi-Bellman (dimension 1). (English summary) [Unconstrained stationary ergodic stochastic control and Neumann asymptotic conditions for the Hamilton-Jacobi-Bellman equation (dimension 1)] **90a:93121**

Yeung, David W. K. A class of differential games with state-dependent closed-loop feedback solutions. **90g:90213**

49C15 Problems in abstract spaces or involving functional relations other than differential equations

Zakrzewska, Danuta Convex duality and Hamiltonian systems in the space of absolutely continuous functions. (Serbo-Croatian summary) **90g:49020**

Items with secondary classifications in 49C15

Chandra, Suresh *see* **Mond, B.; et al., 90a:49019**

Da Prato, G. Some results on periodic solutions of Hamilton-Jacobi equations in Hilbert spaces. **90m:49021**

Husain, I. *see* **Mond, B.; et al., 90a:49019**

Ježek, Jan An algebraic approach to the synthesis of control for linear discrete meromorphic systems. **90d:93020**

Mond, B. (*with* Chandra, Suresh; Husain, I.) Duality for variational problems with invexity. **90a:49019**

49C20 Dynamic programming method

Bardi, Martino A boundary value problem for the minimum-time function. **90i:49034**

Barron, E. N. (*with* Ishii, Hitoshi) The Bellman equation for minimizing the maximum cost. **90m:49022**

Cannarsa, P. (*with* Da Prato, G.) Nonlinear optimal control with infinite horizon for distributed parameter systems and stationary Hamilton-Jacobi equations. **90j:49019**

Capuzzo-Dolcetta, I. (*with* Falcone, M.) Discrete dynamic programming and viscosity solutions of the Bellman equation. **90i:49035**

— (*with* Lions, P.-L.) Hamilton-Jacobi equations with state constraints. **90g:49021**

Chernov, D. È. *see* **Malyshev, V. V.**, (Not in MR)

Da Prato, G. *see* **Cannarsa, P., 90j:49019**

Evans, L. C. (*with* James, M. R.) The Hamilton-Jacobi-Bellman equation for time-optimal control. **90j:49020**

Falcone, M. *see* **Capuzzo-Dolcetta, I., 90i:49035**

Frankowska, Halina Optimal trajectories associated with a solution of the contingent Hamilton-Jacobi equation. **90b:49043**

Iftode, Vasile Hamilton-Jacobi equations and boundary convex control problems. **90h:49021**

Ishii, Hitoshi *see* **Barron, E. N., 90m:49022**

James, M. R. *see* **Evans, L. C., 90j:49020**

Kirin, N. E. The method of successive damping in the problem of control from incomplete feedback. (Not in MR)

Leizarowitz, Arie Control problems with random and progressively known targets. **90g:49022**

Lions, P.-L. Viscosity solutions of fully nonlinear second order equations and optimal stochastic control in infinite dimensions. II. Optimal control of Zakai's equation. **90k:49032**

— *see also* **Capuzzo-Dolcetta, I., 90g:49021**

Malyshev, V. V. (*with* Chernov, D. È.) Reduction of computational expenditures in the dynamic programming method. (Not in MR)

Mirică, Ştefan Inégalités différentielles impliquant l'équation de Bellman-Isaacs et ses généralisations dans la théorie du contrôle optimal. [Differential inequalities implying th Bellman-Isaacs equation and its generalizations in optimal control theory] **90a:49030**

Morozan, T. Dynamic programming for some discrete-time stochastic control problems. (Not in MR)

Schäfer, Wolfgang Dynamic programming and duality for complex systems. (Russian and Polish summaries) **90c:49055**

Vinter, R. B. (*with* Wolenski, P.) Hamilton Jacobi theory for optimal control problems wit data measurable in time. (*see* **90m:93004**)

Wolenski, P. *see* **Vinter, R. B.**, (**90m:93004**)

Yakovenko, S. Yu. On the concept of an infinite extremal in stationary problems of dynami optimization. (Not in MR)

Zaremba, Leszek S. Optimality principles of dynamic programming in differential games. **90b:49044**

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Adiatulina, R. A. (*with* Taras′ev, A. M.) A differential game of unlimited duration. **90b:90167**

Bensoussan, A. (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**

Blankenship, G. *see* **Bensoussan, A., 90i:93137**

Boukas, E. K. (*with* Haurie, A.; Michel, Philippe) An optimal control problem with a random stopping time. (Not in MR)

Caines, P. E. (*with* Wang, Suning) Classical and logic based regulator design and its complexity for partially observed automata. (*see* **90m:93004**)

Cao, Hai Xing (*with* Zhang, Yu Fei) Fuzzy optimal control and fuzzy dynamic programming. (Chinese. English summary) **90a:90205**

Chentsov, A. G. *see* **Morina, S. I., 90c:49028**

Chinaev, P. I. Application of automatic control theory to the synthesis of modules of flexib manufacturing systems. (Not in MR)

Fleming, W. H. (*with* Souganidis, P. E.) On the existence of value functions of two-player, zero-sum stochastic differential games. **90e:93089**

— (*with* Vermes, Domokos) Convex duality approach to the optimal control of diffusions. **90i:49016**

González, Roberto (*with* Rofman, Edmundo) On stochastic control problems: an algorith for the value function and the optimal policy—some applications. **90a:93123**

Gozzi, Fausto Some results for an infinite horizon control problem governed by a semilinea state equation. **90m:93070**

Haurie, A. *see* **Boukas, E. K.; et al.**, (Not in MR)

Ishii, Hitoshi (*with* Yamada, Naoki) A remark on a system of inequalities with bilateral obstacles. **90m:35077**

Khrustalev, M. M. Global optimality conditions for controlled noninertial systems with delays. (Russian and Polish summaries) **90f:49023**

Komarov, V. A. Time optimality for differential inclusions. (Russian) **90e:49047**

Lenhart, S. M. (*with* Liao, Y. C.) Switching control of piecewise-deterministic processes. **90f:49014**

Liao, Y. C. *see* **Lenhart, S. M., 90f:49014**

Lions, P.-L. (*with* Perthame, B.) An impulsive control problem with state constraint. **90k:93047**

Lojasiewicz, Stanisław, Jr. (*with* Szpunar, W.) Optimal feedback. (*see* **90d:93005**)

Loreti, Paola (*with* Mazzini, Leonardo) Dynamical programming methods in viability theory. (Italian. English summary) **90c:49052**

Mazzini, Leonardo *see* **Loreti, Paola, 90c:49052**

Menaldi, José-Luis *see* **Sun, Min, 90c:93118**

Michel, Philippe *see* **Boukas, E. K.; et al.**, (Not in MR)

Morina, S. I. (*with* Chentsov, A. G.) Discrete control in problems of mathematical programming that are dual to problems of sequential optimization. **90c:49028**

Nisio, Makiko Stochastic differential games and viscosity solutions of Isaacs equations. **90b:93100**

Perthame, B. *see* **Lions, P.-L., 90k:93047**

Rofman, Edmundo *see* **González, Roberto, 90a:93123**

Rozyev, I. (*with* Subbotin, A. I.) Semicontinuous solutions of Hamilton-Jacobi equations. **90c:90259**

Souganidis, P. E. *see* **Fleming, W. H., 90e:93089**

Subbotin, A. I. *see* **Rozyev, I., 90c:90259**

Sun, Min (*with* Menaldi, José-Luis) Monotone control of a damped oscillator under random perturbations. **90c:93118**

Szpunar, W. *see* **Lojasiewicz, Stanisław, Jr.**, (**90d:93005**)

Taras′ev, A. M. *see* **Adiatulina, R. A., 90b:90167**

Vermes, Domokos *see* **Fleming, W. H., 90i:49016**

Wang, Suning *see* **Caines, P. E.**, (**90m:93004**)

Yamada, Naoki *see* **Ishii, Hitoshi, 90m:35077**

Yanushevskiĭ, R. T. Optimal control of linear differential-difference systems of neutral type. **90m:34163**

Yong, Jiong Min Systems governed by ordinary differential equations with continuous, switching and impulse controls. **90f:49026**

Zhang, Yu Fei *see* **Cao, Hai Xing, 90a:90205**

49C99 None of the above, but in this section

Items with secondary classifications in 49C99

Davis, Julian L. ★ Wave propagation in solids and fluids. **90d:73018**

Krishnarayalu, M. S. Singular perturbation method applied to the open-loop discrete optimal control problem with two small parameters. **90f:93046**

Sun, Min Monotonicity of Mangasarian's iterative algorithm for generalized linear complementarity problems. **90m:90287**

49Dxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

Items with secondary classifications in 49Dxx

Baturin, V. A. *see* **Gurman, V. I.; et al., 90b:93039**

Bobryshev, A. G. *see* **Gurman, V. I.; et al., 90b:93039**

Butin, A. A. *see* **Gurman, V. I.; et al., 90b:93039**

Cherkashin, A. K. *see* **Gurman, V. I.; et al., 90b:93039**

Danilina, E. V. *see* **Gurman, V. I.; et al., 90b:93039**

Dushin, K. B. *see* **Gurman, V. I.; et al., 90b:93039**

Faurre, Pierre ★ Analyse numérique. (French) [Numerical analysis] **90a:65146**

Gurman, V. I. (*with* Baturin, V. A.; Danilina, E. V.; Bobryshev, A. G.; Butin, A. A.; Dushin, K. B.; Kvokov, V. N.; Kolokol′nikova, G. A.; Konstantinov, G. N.; Mel′nik, V. V.; Moskalenko, A. I.; Nikiforova, L. N.; Sidorenko, G. V.; Ovsyannikov, A. L.; Rasina, I. V.; Cherkashin, A. K.; Khangurova, E. V.) ★ Новые методы улучшения управляемых процессов. (Russian) [New methods for improving control processes] **90b:93039**

Khangurova, E. V. *see* **Gurman, V. I.; et al., 90b:93039**

Kolokol′nikova, G. A. *see* **Gurman, V. I.; et al., 90b:93039**

Konstantinov, G. N. *see* **Gurman, V. I.; et al., 90b:93039**

Kvokov, V. N. *see* **Gurman, V. I.; et al., 90b:93039**

Mel′nik, V. V. *see* **Gurman, V. I.; et al., 90b:93039**

Moskalenko, A. I. *see* **Gurman, V. I.; et al., 90b:93039**

Nikiforova, L. N. *see* **Gurman, V. I.; et al., 90b:93039**

Ovsyannikov, A. L. *see* **Gurman, V. I.; et al., 90b:93039**

Rasina, I. V. *see* **Gurman, V. I.; et al., 90b:93039**

Sidorenko, G. V. *see* **Gurman, V. I.; et al., 90b:93039**

49D05 Methods based on necessary conditions

Burdukovskiĭ, A. N. (*with* Srochko, V. A.) Application of the variational maximum principle for solving problems of the optimization of controllable systems with distributed parameters. (Russian) **90c:49056**

Popov, V. A.^{2} Convergence of the method of successive approximations in some optimal control problems. (Russian) **90f:49027**

Srochko, V. A. *see* **Burdukovskiĭ, A. N., 90c:49056**

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Amouroux, M. (*with* Benbrik, A.) Contrôle optimal de systèmes à paramètres distribués bilinéaires de type Dirichlet. (English summary) [Optimal control of bilinear distributed-parameter systems of Dirichlet type] **90h:49018**

Benbrik, A. *see* **Amouroux, M., 90h:49018**

Bhakta, P. C. (*with* Roychaudhuri, Sumitra) Optimization in Banach spaces. **90c:90237**

Gilbert, Jean Charles (*with* Lemaréchal, Claude) Some numerical experiments with variable-storage quasi-Newton algorithms. **90m:65128**

Lemaréchal, Claude *see* **Gilbert, Jean Charles, 90m:65128**

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49D07 Gradient methods

Khandovletov, M. *see* **Palatov, M. B.; et al., 90g:49023**

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Antipin, A. S. Continuous and iterative processes with projection operators and projection-type operators. (Russian) **90i:34072**

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— Auxiliary problem principle extended to variational inequalities. **90e:49008**

Godara, L. C. (*with* Gray, D. A.) A structured gradient algorithm for adaptive beamforming. (Not in MR)

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Wright, Stephen Joseph Convergence of SQP-like methods for constrained optimization. **90b:90127**

49D10 Methods of steepest descent type

Kirin, N. E. (*with* Sadovin, N. S.) An interpolation variant of the successive damping method. (Russian) (*see* **90k:00019**)

Neittaanmäki, Pekka (*with* Tiba, D.) A steepest descent method for the approximation of the boundary control in two-phase Stefan problem. **90b:49045**

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49D15 Methods of Newton-Raphson, Galerkin and Ritz types

Alt, Walter (*with* Mackenroth, Uwe) Convergence of finite element approximations to state constrained convex parabolic boundary control problems. **90c:49057**
Chang, Sung Kag Galerkin approximations of Riccati operators arising in the boundary controls for hyperbolic systems. **90b:49046**
Fujii, Nobuo *see* **Goto, Yoshito, 90j:49021**
Goto, Yoshito (*with* Fujii, Nobuo) A Newton's method in a domain optimization problem. **90j:49021**
Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via Galerkin-type approximation. (*see* **90m:93002**)
Kiselev, Yu. N. (*with* Orlov, M. V.) A search scheme for optimal solution of a linear time-optimality problem. (Not in MR)
Mackenroth, Uwe *see* **Alt, Walter, 90c:49057**
Orlov, M. V. *see* **Kiselev, Yu. N.**, (Not in MR)
Propst, Georg Piecewise linear approximation for hereditary control problems. **90m:49024**
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Burns, John A. (*with* Fabiano, R. H.) Feedback control of a hyperbolic partial-differential equation with viscoelastic damping. **90d:93040**
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Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Supercomputer solutions of partial differential equation problems in computational fluid dynamics and in control. **90h:76003**
Defrise, M. (*with* De Mol, C.) A note on stopping rules for iterative regularization methods and filtered SVD. **90h:65091**
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Kelley, C. T. (*with* Sachs, E. W.) A pointwise quasi-Newton method for unconstrained optimal control problems. **90i:65119**
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März, Roswitha *see* **Hanke, Michael; et al., 90m:34003**
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Rosen, I. Gary *see* **Bernstein, Dennis S., 90m:93069**
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Sheng, Song Bai *see* **Dennis, J. E., Jr.; et al., 90e:65088**
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49D20 Methods of relaxation type

Ambrosio, L. Relaxation of autonomous functionals with discontinuous integrands. **90i:49037**
Artstein, Zvi Rapid oscillations, chattering systems, and relaxed controls. **90g:49024**
Benassi, Carlo (*with* Gavioli, Andrea) Some results about relaxation of integral functional **90a:49031**
Cabib, Elio Lower semicontinuity and relaxation for some problems in optimal design. **90h:49022**
Gavioli, Andrea *see* **Benassi, Carlo, 90a:49031**
Goh, C. J. *see* **Teo, Kok-Lay, 90c:49061**
Kinderlehrer, D. (*with* Vergara-Caffarelli, Giorgio) The relaxation of functionals with surface energies. **90m:49025**
Mascolo, E. (*with* Migliaccio, L.) Relaxation in optimal control theory. **90i:49038**
— (*with* Migliaccio, L.) Relaxation methods in control theory. **90c:49059**
Miellou, J.-C. (*with* Spiteri, P.) A parallel asynchronous relaxation algorithm for optimal control problems. **90c:49060**
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Teo, Kok-Lay (*with* Goh, C. J.) A computational method for a class of optimal relaxed control problems. **90c:49061**
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Dacorogna, Bernard A characterization of polyconvex, quasiconvex and rank one convex envelopes. **90b:49019**
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Nikol′skiĭ, M. S. A minimax control problem. (Russian) **90b:49039**
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Papageorgiou, Nikolaos S. On the optimal control and relaxation of nonlinear infinite-dimensional systems. **90k:49007**
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— Properties of the relaxed trajectories of evolution equations and optimal control. **90b:49008**
Wyderka, Zdzisław Linear time-optimal control problem with incomplete information about state. Optimization of guaranteed result. **90b:49018**

49D25 Finite difference methods

Israilov, I. I. (*with* Otakulov, S.) Difference approximation for an optimal control problem (Russian) **90f:49028**
Mordukhovich, B. Sh. An approximate maximum principle in finite-difference control systems. (Russian) **90e:49035**
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Yafrakov, M. F. Control of a dynamical system with intermediate conditions. (Russian) **90k:49028**
Yavin, Y. (*with* de Villiers, R.) Proportional navigation and the game of two cars. **90i:93121**

49D27 Decomposition methods

Aravena, Jorge L. (*with* Porter, W. A.) Results in state and minimality for m-D systems. (*see* **90k:93007**)
Calvet, J. L. (*with* Titli, A.) Overlapping vs partitioning in block-iteration methods: application in large-scale system theory. **90e:49036**
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Cheng, Dai Zhan On decomposition of general nonlinear systems. (Chinese. English summary) **90g:49025**
— Design for noninteracting decomposition of nonlinear systems. **90a:49032**
— (*with* Wang, Hong Cai) Kalman decomposition of general nonlinear systems. (Chinese. English summary) **90f:49029**
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Dai, Li Yi Strong decoupling in singular systems. **90j:49022**
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— Decomposition of the Roesser model and new conditions for local controllability and local observability. **90b:49048**
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Mamedov, M. D. ★ Математическая теория иерархических структур. (Russian) [Mathematical theory of hierarchical structures] **90g:93004**
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Xu, Xiao Shu Analysis and synthesis of multivalued cascade sequential machines. (Chinese. English summary) **90e:94057**

49D29 Multiplier methods

Alt, Walter Stability of solutions to control constrained nonlinear optimal control problems. **90i:49040**
Blot, Joël Lagrange multipliers in variational problems in mean. **90a:49033**
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49D35 Methods of linear programming type

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49D37 Nonlinear programming

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49D39 Semi-infinite programming

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49D40 Methods of quadratic programming type

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Kaczorek, Tadeusz (*with* Dzieliński, Andrzej) Linear-quadratic optimal regulator problem for singular 2-D systems. (Not in MR)
— The linear-quadratic optimal regulator for singular 2-D systems with variable coefficients. **90b:49006**
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Kowalewski, Adam Boundary control of distributed parabolic system with boundary condition involving a time-varying lag. **90a:49010**
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Lagnese, John E. Infinite horizon linear-quadratic regulator problems for beams and plates. **90c:49002**
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Lu, Qiang (*with* Lu, Jin; Gao, Jixang; Lee, Gordon K. F.) Decentralized control for multimachine power systems. **90a:93011**
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Machielsen, K. C. P. ★ Numerical solution of optimal control problems with state constraints by sequential quadratic programming in function space. **90e:65092**
Mamedov, M. D. ★ Математическая теория иерархических структур. (Russian) [Mathematical theory of hierarchical structures] **90g:93004**
Mantas, G. P. (*with* Krikelis, N. J.) Linear quadratic optimal control for discrete descriptor systems. **90d:93047**
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— *see also* **Bunse-Gerstner, Angelika, 90m:65134**
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Morimoto, Hiroaki Adaptive LQG regulator via the separation principle. (Not in MR)
Mosca, E. (*with* Zappa, Giovanni) ARX modeling of controlled ARMAX plants and LQ adaptive controllers. **90c:93116**
— (*with* Giarré, L.; Casavola, A.) On the polynomial equations for the MIMO LQ stochastic regulator. **90m:93136**
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Paschall, Randall N. (*with* Lair, Alan V.) Extending the linear quadratic Gaussian/loop transfer recovery technique to a class of distributed parameter systems. (*see* **90m:93004**)
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Sissaoui, H. (*with* Collins, William D.; Harley, P. J.) The numerical solution of the linear regulator problem with positive control. **90a:93044**
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— (*with* Yamamoto, Yutaka) On successive pole assignment by linear-quadratic optimal feedbacks. **90j:93060**
Talwar, D. (*with* Sivan, R.) An efficient numerical algorithm for the solution of a class of optimal control problems. (Not in MR)
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Uchida, Kenko (*with* Fujita, Masayuki) On the central controller: characterizations via differential games and LEQG control problems. **90k:49027**
Veillette, R. J. (*with* Medanic, J. V.) H_∞-norm bounds for ARE-based designs. **90i:93030**
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Yoshida, Taketoshi (*with* Loparo, K.) Quadratic regulatory theory for analytic nonlinear systems with additive controls. **90j:93057**
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Zheng, Da Zhong Some new results on optimal and suboptimal regulators of the LQ problem with output feedback. **90d:93033**
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49D45 Methods of convex programming type

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Geromel, J. C. Global optimization of measurement strategies for linear stochastic systems. **90h:93117**
Hoffmann, Armin Asymptotische Lösbarkeit bei abstrakten stetig-konvexen Optimalsteuerproblemen. Teil I: Asymptotische Erweiterung. [Asymptotic solvability in abstract continuous-convex optimal control problems. Part I: Asymptotic expansion] **90f:93041**
— Asymptotische Lösbarkeit bei abstrakten stetig-konvexen Optimalsteuerproblemen. II. Vergleiche zum üblichen Lösungsbegriff. [Asymptotic solvability in abstract continuous-convex optimal control problems. II. Comparisons with the conventional concept of solution] **90f:93042**
Wang, Zi Qiang Extremum principle of crystal plasticity. **90a:73071**

49D50 Periodic optimization

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— (*with* Sieveking, Malte) Asymptotic properties of optimal solutions in planar discounted control problems. **90e:49042**
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Lenze, Burkhard On the explicit solution of a time-optimal control problem by means of one-sided spline approximation. **90c:49069**
Macki, J. W. (*with* Nistri, P.; Zecca, Pietro) Periodic solutions of a control problem via marginal maps. **90h:49027**
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— (*with* Nitka-Styczeń, Krystyna) Trigonometric approximation of optimal periodic control problems for systems with inertial controllers. (Not in MR)
— Trigonometric approximation of optimal periodic control problems with variable delays. **90k:49036**
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Afanas'ev, A. P. Bilinear antisymmetric form in optimal control problem. (*see* **90j:00015**)
Artstein, Zvi Parametrized integration of multifunctions with applications to control and optimization. **90k:28023**
Bentsman, J. (*with* Fakhfakh, Jamel; Lehman, Bradley) Vibrational stabilization of linear time delay systems and its robustness with respect to the delay size. (Not in MR)
Bittanti, Sergio (*with* Bolzern, Paolo; Colaneri, Patrizio) Inertia theorems for Lyapunov and Riccati equations—an updated view. **90a:93025**
— (*with* Colaneri, Patrizio; De Nicolao, Giuseppe) An algebraic Riccati equation for the discrete-time periodic prediction problem. **90k:93017**
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Bolzern, Paolo *see* **Bittanti, Sergio; et al., 90a:93025**
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Freudenberg, J. S. (*with* Grizzle, J. W.) An observation on the parameterization of causal stabilizing controllers for lifted systems. **90i:93081**
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Juan, Y. C. (*with* Kabamba, P.) Simultaneous pole assignment in linear periodic systems by constrained structure feedback. **90a:93053**
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Kuprava, T. K. A condition of nondegeneracy for the maximum principle for controllable systems with prehistory. (Russian. English and Georgian summaries) (Not in MR)
Laptinskiĭ, V. N. Optimal stabilization of periodic control systems. **90a:93079**
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Matros, Yu. Sh. *see* **Zolotarskiĭ, I. A.; et al., (90j:80024)**
Mikadze, I. S. A periodically controllable service system with an unreliable device. **90a:60173**
Nitka-Styczeń, Krystyna Approximate discrete maximum principle for the difference approximation of optimal periodic control problems. **90m:49016**
Pimenides, T. G. Exact model-matching control of 2-D systems by periodic state or output feedback. (Not in MR)
Stanomir, D. Some results concerning the response of systems to periodic inputs. (Romanian summary) **90m:93032**
Tudor, Constantin Optimal control for an infinite-dimensional periodic problem under white noise perturbations. **90m:49015**
Zeidan, Vera (*with* Zezza, Pier Luigi) Coupled points in the calculus of variations and applications to periodic problems. **90b:49037**
Zezza, Pier Luigi *see* **Zeidan, Vera, 90b:49037**
Zhang, Cishen (*with* Evans, Robin J.) Discrete periodic controller for multivariable linear systems. (*see* **90m:93004**)

Zolotarskiĭ, I. A. (*with* Bogdashev, S. M.; Matros, Yu. Sh.) Optimal control of periodic processes on a catalyst surface. (Russian) (*see* **90j:80024**)

49D99 None of the above, but in this section

Afanas′ev, V. P. (*with* Severenchuk, S. V.) Application of the method of successive approximations for a control problem with minimal energy in nonlinear systems with nonlinear constraints on the control. (Russian) **90e:49043**

Severenchuk, S. V. *see* **Afanas′ev, V. P., 90e:49043**

Items with secondary classifications in 49D99

Abbasov, A. A. (*with* Mamedova, È. T.; Mamtiev, K. K.) The method of lines for the approximate solution of optimal control problems. (Russian. English and Azerbaijani summaries) **90d:65123**

Balabanov, O. V. (*with* Pashintsev, V. T.) On the use of the variational principle of invariance in numerical methods of optimal control in the presence of terminal constraints. **90d:65124**

Kiselev, Yu. N. Methods for solving a smooth linear time-optimality problem. (Russian) **90f:93036**

Mamedova, È. T. *see* **Abbasov, A. A.; et al., 90d:65123**

Mamtiev, K. K. *see* **Abbasov, A. A.; et al., 90d:65123**

Marsh, J. F. A structurally efficient two-level algorithm for WLS estimation. (*see* **90k:93007**)

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49Exx Controllability and geometry of control problems

49E05 General dependence on controls

Bublik, B. N. (*with* Slavova, T. I.) Optimization of a domain of initial data for a controllable dynamical system. (Russian. English summary) **90a:49034**

Slavova, T. I. *see* **Bublik, B. N., 90a:49034**

Items with secondary classifications in 49E05

Borkar, Vivek S. A topology for Markov controls. **90a:93116**

49E10 Orientor fields (contingency equations)

Amrakhov, Sh. G. Sufficient conditions for optimality on an infinite time interval. (Russian) **90e:49044**

Aubin, Jean-Pierre (*with* Frankowska, Halina) Observability of systems under uncertainty. **90i:49043**

Choe, Son Chol (*with* Han, Hyok) Some properties of reachable domain of objects described by differential inclusions. (Korean. English summary) (Not in MR)

Clarke, F. H. *see* **Loewen, P. D.; et al., 90b:49054**

Filippova, T. F. *see* **Kurzhanskiĭ, A. B., 90i:49044**

Fokeeva, M. Yu. Synthesis of linear systems with a phase constraint. (Russian) **90d:49024**

Frankowska, Halina (*with* Kaśkosz, Barbara) Minimal trajectories of nonconvex differential inclusions. **90e:49045**

— *see also* **Aubin, Jean-Pierre, 90i:49043**

Gaĭtsgori, V. G. Averaging on families of controls with bounded variation. (Russian. Tajiki summary) **90a:49035**

Han, Hyok *see* **Choe, Son Chol**, (Not in MR)

Hejmo, Władysław (*with* Kloch, Jacenty) Switching curve deformation in a time-optimal closed-loop system. **90c:49070**

Israilov, I. I. (*with* Otakulov, S.) Time-optimality problems for a controllable differential inclusion. (Russian) (Not in MR)

Ivanenko, V. I. (*with* Mel′nik, V. S.) A control problem for differential inclusions in Banach spaces. (Russian) **90e:49046**

Kaśkosz, Barbara *see* **Frankowska, Halina, 90e:49045**

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Komarov, V. A. Time optimality for differential inclusions. (Russian) **90e:49047**

Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) On the set-valued calculus in problems of viability and control for dynamic processes: the evolution equation. **90i:49044**

Lee, Sung J. (*with* Nashed, M. Z.) Differential inclusions, linear selections, and an optimal control problem. **90g:49028**

Loewen, P. D. (*with* Clarke, F. H.; Vinter, R. B.) Differential inclusions with free time. (French summary) **90b:49054**

— Perturbed differential inclusion problems. (*see* **90i:93003**)

Macki, J. W. (*with* Nistri, P.; Zecca, Pietro) A tracking problem for uncertain vector systems. **90k:49037**

Mel′nik, V. S. *see* **Ivanenko, V. I., 90e:49046**

Mukhsinov, M. A. On the mathematical theory of survival. (Russian. Tajiki summary) (Not in MR)

Nashed, M. Z. *see* **Lee, Sung J., 90g:49028**

Nistri, P. *see* **Macki, J. W.; et al., 90k:49037**

Otakulov, S. *see* **Israilov, I. I.**, (Not in MR)

Panasyuk, A. I. On the equation of an integral funnel and its applications. **90f:49033**

— Qualitative dynamics of sets that are defined by differential inclusions. **90c:49071**

Papageorgiou, Nikolaos S. On multivalued semilinear evolution equations. (Italian summary) **90e:49048**

Polovinkin, E. S. Necessary conditions for the optimality of solutions of differential inclusions on a segment. (Russian) **90e:49049**

Schilling, Klaus An algorithm to solve boundary value problems for differential inclusions and applications in optimal control. **90h:49028**

Smirnov, G. V. Extremal problems for differential inclusions with phase constraints. **90c:49072**

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Zecca, Pietro *see* **Macki, J. W.; et al., 90k:49037**

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Ambrosio, L. A lower closure theorem for autonomous orientor fields. **90c:49017**

Aubin, Jean-Pierre Smallest Lyapunov functions of differential inclusions. **90d:49007**

Chkhikvadze, I. Yu. A study of the phase portraits of bilinear systems. **90e:93027**

Chodun, Waldemar Avoidance of many pursuers in differential games described by differential inclusions. **90b:90168**

Deimling, Klaus On solution sets of multivalued differential equations. **90a:34032**

— Extremal solutions of multivalued differential equations. II. **90k:34009**

Elaydi, S. (*with* Kaul, S. K.) Asymptotic stability in general dynamical systems. **90f:93004**

Flytzanis, Elias (*with* Papageorgiou, Nikolaos S.) Existence of monotone and slow solutions for differential inclusions. **90j:34024**

Hartl, Richard F. A dynamic activity analysis for a monopolistic firm. **90h:90044**

Hejmo, Władysław (*with* Kloch, Jacenty) On the perturbations in a time-optimal closed-loop system. **90k:49030**

Kandilakis, Dimitrios A. (*with* Papageorgiou, Nikolaos S.) On the properties of the Aumann integral with applications to differential inclusions and control systems. **90b:28013**

Kaul, S. K. *see* **Elaydi, S., 90f:93004**

Kloch, Jacenty *see* **Hejmo, Władysław, 90k:49030**

Kravvaritis, D. (*with* Papageorgiou, Nikolaos S.) Multivalued perturbations of subdifferential type evolution equations in Hilbert spaces. **90a:34034**

Kurzhanskiĭ, A. B. (*with* Vályi, I.) Set-valued solutions to control problems and their approximations. **90b:93035**

— (*with* Nikonov, O. I.) Funnel equations and multivalued integration problems for control synthesis. (*see* **90k:93008**)

Łojasiewicz, Stanisław, Jr. (*with* Szpunar, W.) Optimal feedback. (*see* **90d:93005**)

Lovíšek, J. Optimal design of sandwich plates with a rigid obstacle. (German and Russian summaries) **90i:73082**

Macki, J. W. (*with* Nistri, P.; Zecca, Pietro) Periodic solutions of a control problem via marginal maps. **90h:49027**

Nikonov, O. I. *see* **Kurzhanskiĭ, A. B.**, (**90k:93008**)

Nistri, P. *see* **Macki, J. W.; et al., 90h:49027**

Panasyuk, A. I. Dynamics of attainability sets of control systems. **90b:49055**

Papageorgiou, Nikolaos S. Differential inclusions with state constraints. **90a:34035**

— *see also* **Kravvaritis, D., 90a:34034**; **Kandilakis, Dimitrios A., 90b:28013** *and* **Flytzanis, Elias, 90j:34024**

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Vályi, I. *see* **Kurzhanskiĭ, A. B., 90b:93035**

Yakovenko, S. Yu. Fixed points of a semigroup of Bellman operators, and invariant manifolds of Hamiltonian subdifferential equations. **90k:93031**

Zecca, Pietro *see* **Macki, J. W.; et al., 90h:49027**

49E15 Attainable sets, controllability

Aleksandrov, Vladimir Mikhaĭlovich (*with* Boldyrev, V. I.; Besschëtnov, M. E.) Construction of a terminal control for nonlinear systems. (Russian) **90a:49036**

Andreini, Alessandra (*with* Staicu, Vasile) On the reachable sets of a linear control system. (Italian summary) **90d:49025**

(Bardos, Claude) *see* **Lions, Jacques-Louis, 90a:49040**

Besschëtnov, M. E. *see* **Aleksandrov, Vladimir Mikhaĭlovich; et al., 90a:49036**

Boldyrev, V. I. *see* **Aleksandrov, Vladimir Mikhaĭlovich; et al., 90a:49036**

Caines, P. E. (*with* Wang, Suning) Classical and logic based regulator design and its complexity for partially observed automata. (*see* **90m:93004**)

Eke, Anthony N. Compactness and convexity of cores of targets for neutral systems. **90c:49073**

El Jaï, A. (*with* González, Alfred) Actionneurs et contrôlabilité des systèmes hyperboliques. (English summary) [Actuators and controllability of hyperbolic systems] **90h:49029**

Fisher, Michael Ernest (*with* Vincent, T. L.) Single input-output systems containing a small parameter. **90j:49028**

Frankowska, Halina On the linearization of nonlinear control systems and exact reachability. **90c:49074**

Go′ldshteĭn, S. L. (*with* Solonin, E. B.) On the conditions of control model closed form and properties of the reachable set for a definite class of problems. (Russian summary) (Not in MR)

González, Alfred *see* **El Jaï, A., 90h:49029**

Grisvard, P. Contrôlabilité exacte des solutions de l'équation des ondes en présence de singularités. (English summary) [Exact controllability of solutions of the wave equation in the presence of singularities] **90i:49045**

Jakubczyk, B. (*with* Sontag, Eduardo D.) Nonlinear discrete-time systems. Accessibility conditions. (*see* **90d:93005**)

Komarov, V. A. An equation of the attainable sets of differential inclusions in a problem with phase constraints. (Russian) **90f:49034**

Komornik, V. Contrôlabilité exacte en temps minimal de quelques modèles de plaques. (English summary) [Exact controllability in minimal time of some plate models] **90a:49037**

— Exact controllability in short time for the wave equation. **90c:49075**

Kovalev, A. M. Support and gauge functions of attainable sets of linear controllable systems. (Russian) **90h:49030**

Krener, Arthur J. (*with* Schättler, H.) The structure of small-time reachable sets in low dimensions. **90i:49046**

Kurzhanskiĭ, A. B. (*with* Nikonov, O. I.) Funnel equations and multivalued integration problems for control synthesis. (*see* **90k:93008**)

Kuznetsov, A. G. Attainable sets in the dynamics of controllable heat-exchange systems. **90a:49038**

Kvitko, A. N. On a problem on the construction of programmed motions. (Russian) (*see* **90k:00019**)

Lasiecka, I. (*with* Triggiani, R.) Exact controllability of the wave equation with Neumann boundary control. **90a:49039**

(Lebeau, Gilles) *see* **Lions, Jacques-Louis, 90a:49040**

Leugering, Günter On boundary controllability of viscoelastic systems. **90h:49031**
Lewis, F. L. *see* **Özçaldiran, K., 90c:49076**
Lions, Jacques-Louis ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 1. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 1] **90a:49040**
Margheri, Alessandro (*with* Staicu, Vasile) On the return sets of a linear control system. (Italian summary) **90d:49026**
Nikonov, O. I. *see* **Kurzhanskiĭ, A. B., (90k:93008)**
Özçaldiran, K. (*with* Lewis, F. L.) Generalized reachability subspaces for singular systems. **90c:49076**
Panasyuk, A. I. Dynamics of attainability sets of control systems. **90b:49055**
Petrenko, I. V. A description of feasibility sets for dynamical systems that use positive controls. (Russian) (*see* **90d:00025**)
Pliss, P. V. Asymptotic expansion at infinity of the discontinuity curve of the controllability set of the van der Pol equation with control. **90m:49029**
Ragab, M. Z. Isochronal surfaces for certain control system. (Arabic summary) **90j:49029**
(Rauch, Jeffrey) *see* **Lions, Jacques-Louis, 90a:49040**
Reshetnyak, Yu. N. Summation of ellipsoids in a problem of guaranteed estimation. (Russian) **90f:49035**
Schanbacher, Tilman Aspects of positivity in control theory. **90c:49077**
Schättler, H. *see* **Krener, Arthur J., 90i:49046**
Shorikov, A. F. *see* **Tyulyukin, V. A., 90j:49030**
Smirnov, G. V. Local controllability for differential inclusions. (Russian) **90d:49027**
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Turetskiĭ, V. Ya. Moving a linear system to a neighborhood of the origin. **90b:49056**
Tyulyukin, V. A. (*with* Shorikov, A. F.) An algorithm for constructing a domain of reachability for a linear controllable system. (Russian) **90j:49030**
Vel'ov, V. M. On the controllability of control constrained linear systems. **90i:49047**
Vincent, T. L. *see* **Fisher, Michael Ernest, 90j:49028**
Wang, Suning *see* **Caines, P. E., (90m:93004)**
Warga, J. Higher-order conditions for conical controllability. **90d:49028**
(Zuazua, Enrike) *see* **Lions, Jacques-Louis, 90a:49040**

Items with secondary classifications in 49E15

Agrachëv, A. A. (*with* Gamkrelidze, R. V.; Sarychev, A. V.) Local invariants of smooth control systems. **90i:93033**
Aĭsagaliev, S. A. Controllability of quasilinear systems. (Russian. Kazakh summary) **90b:93008**
Babichev, A. V. (*with* Butkovskiĭ, A. G.; Lepe, N. L.) Decomposition of the phase portrait of a controlled dynamical system via the fiber bundle technique. **90g:93028**
Bogmér, A. On control problems. **90f:35028**
Brú, Rafael (*with* Hernández, Vicente) Structural properties of discrete-time linear positive periodic systems. **90h:39008**
Butkovskiĭ, A. G. *see* **Babichev, A. V.; et al., 90g:93028**
Cârjă, Ovidiu Range inclusion for convex processes on Banach spaces; applications in controllability. **90g:47004**
Cioranescu, Doïna (*with* Donato, Patrizia) Exact internal controllability in perforated domains. **90g:93007**
Dai, Li Yi The difference between regularity and irregularity in singular systems. **90k:93041**
— Feedback control of singular systems. (Chinese. English summary) **90i:93058**
Demidov, V. N. *see* **Golubev, Yu. F., 90g:58120**
Donato, Patrizia *see* **Cioranescu, Doïna, 90g:93007**
Èmanuilov, O. Yu. Boundary controllability of semilinear evolution equations. **90m:93013**
Emel'yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Global controllability and stabilization of nonlinear systems. (Russian) **90k:93009**
Fazylov, A. Z. *see* **Satimov, N. Yu., 90k:49009**
Frankowska, Halina Estimations a priori pour les inclusions différentielles opérationnelles. (English summary) [A priori estimates for operational differential inclusions] **90e:34023**
— Local controllability of control systems with feedback. **90b:93009**
Gamkrelidze, R. V. *see* **Agrachëv, A. A.; et al., 90i:93033**
Golubev, Yu. F. (*with* Demidov, V. N.) Qualitative analysis of the dynamics of controllable systems using the theory of infinite-dimensional manifolds. (Russian) **90g:58120**
Hernández, Vicente *see* **Brú, Rafael, 90h:39008**
Kawski, Matthias Controllability, approximations and stabilization. (*see* **90k:93005**)
Khorozov, O. A. *see* **Samoĭlenko, Yu. I.; et al., 90i:93025**
Knobloch, H. W. Steuerbarkeit als zentraler Begriff beim Aufbau der Kontrolltheorie. [Controllability as a central concept in the construction of control theory] **90j:93016**
Kogan, Jacob Existence of minimizers and "complete figure" in linear-quadratic problems of optimal control. **90h:49003**
Komornik, V. Une méthode générale pour la contrôlabilité exacte en temps minimal. (English summary) [A general method for exact controllability in minimal time] **90b:93011**
Kopeĭkina, T. B. Controllability of linear singularly perturbed systems with delay. **90m:34161**
Korovin, S. K. *see* **Emel'yanov, S. V.; et al., 90k:93009**
Kotowski, S. (*with* Szadkowski, J.) On a certain method of synthesis of ordinary differential equations by means of construction of sliding sets. (Russian and Polish summaries) **90b:93046**
Krastanov, Michail I. A sufficient condition for local controllability. (Bulgarian summary) (*see* **90d:00041**)
Lagnese, John E. Exact boundary controllability of Maxwell's equations in a general region. **90c:93009**
Lasiecka, I. (*with* Triggiani, R.) Exact controllability of the Euler-Bernoulli equation with controls in the Dirichlet and Neumann boundary conditions: a nonconservative case. **90j:35130**
Lawrynowicz, Julian (*with* Pełczewski, Władysław) On time-optimal control of linear plant with disturbances and unsymmetrical bounds for the optimal control signal. (Polish summary) **90m:49017**
Lee, E. Bruce *see* **Louisell, J., 90e:93012**
Lepe, N. L. *see* **Babichev, A. V.; et al., 90g:93028**
Levy, Bernard C. *see* **Nikoukhah, Ramine; et al., 90h:93059**
Lions, Jacques-Louis Algorithms of complete controllability. (Russian) **90d:93009**
— Problèmes aux limites non classiques pour équations d'évolution. (English summary) [Nonclassical boundary value problems for evolution equations] **90i:49024**
Louisell, J. (*with* Lee, E. Bruce) Further results on controllability and the linear equation $Ax=b$. **90e:93012**
Mamedov, A. D. A problem of the optimal control of systems with distributed parameters with a delay of neutral type. (Russian) **90g:49006**
Metel'skiĭ, A. V. Functional attainability and functional observability of systems of differential-difference equations. (Russian. English summary) **90a:34175**
Muñoz Rivera, Jaime E. Exact controllability: coefficient depending on the time. **90m:93016**
Naito, Koichiro An inequality condition for approximate controllability of semilinear control systems. **90b:93015**
— Approximate controllability for trajectories of semilinear control systems. **90b:93014**
— (*with* Park, Jong Yeoul) Approximate controllability for trajectories of a delay Volterra control system. **90f:93011**
Neumann, Michael (*with* Stern, Ronald Jay) Discrete approximations to reachability cones of linear differential systems. **90h:34012**
Nikitin, Sergei Vyacheslavovich *see* **Emel'yanov, S. V.; et al., 90k:93009**
Nikoukhah, Ramine (*with* Willsky, Alan S.; Levy, Bernard C.) Reachability, observability, and minimality for shift-invariant two-point boundary-value descriptor systems. **90h:93059**
Ovseevich, A. I. Complete controllability of linear dynamical systems. (Russian) **90m:93018**
Panasyuk, A. I. On the equation of an integral funnel and its applications. **90f:49033**
— Qualitative dynamics of sets that are defined by differential inclusions. **90c:49071**
Papageorgiou, Nikolaos S. Hereditary control systems governed by integro-differential equations. **90d:93043**
Park, Jong Yeoul *see* **Naito, Koichiro, 90f:93011**
Pełczewski, Władysław *see* **Lawrynowicz, Julian, 90m:49017**
Petrenko, I. V. (*with* Semenov, V. N.) Conditions for the controllability of nonlinear systems of logical-dynamical class. (Russian) **90m:93019**
Rech, C. Robustness of interconnected systems to structural disturbances in structural controllability and observability. (Not in MR)
Rurenko, E. N. On the approximate calculation of the feasibility set for a differential inclusion. (Not in MR)
Samoĭlenko, Yu. I. (*with* Smirnov, S. A.; Khorozov, O. A.) ★ Алгебраические методы оптимизации терминальных функционалов квантово-механических систем. (Russian) [Algebraic methods for the optimization of terminal functionals of quantum-mechanical systems] **90i:93025**
Sarychev, A. V. *see* **Agrachëv, A. A.; et al., 90i:93033**
Satimov, N. Yu. (*with* Fazylov, A. Z.) Collision avoidance in linear systems with integral constraints. (Russian) **90k:49009**
Schmale, Wiland On generic reachability over certain Banach algebras. **90f:46088**
— Three-dimensional feedback cyclization over C[y]. **90i:93026**
Semenov, V. N. *see* **Petrenko, I. V., 90m:93019**
Shmakov, M. S. Productivity optimization of modes of work of a portal manipulator in the processing of prescribed trajectories in a tube of admissible errors. (Russian) (Not in MR)
Sholokhovich, F. A. Epsilon-controllability of a linear infinite-dimensional system with periodic input. (Russian) **90m:93020**
Skorokhod, B. A. Control design in a linear terminal problem. (Russian) **90h:93016**
Smirnov, S. A. *see* **Samoĭlenko, Yu. I.; et al., 90i:93025**
Stern, Ronald Jay *see* **Neumann, Michael, 90h:34012**
Szadkowski, J. *see* **Kotowski, S., 90b:93046**
Triggiani, R. *see* **Lasiecka, I., 90j:35130**
Warga, J. Global directional controllability. **90g:93014**
Willsky, Alan S. *see* **Nikoukhah, Ramine; et al., 90h:93059**
Wyderka, Zdzisław Linear differential equations with measures as coefficients and the control theory. (Russian and Czech summaries) **90c:34005**
Yakovleva, A. P. An optimal control problem for a difference inclusion with aftereffect. (Russian. English summary) (Not in MR)
Yamamoto, Yutaka Reachability of a class of infinite-dimensional linear systems: an external approach with applications to general neutral systems. **90e:34156**

49E20 Interrelations between stability problems and optimization problems

Akaev, A. B. (*with* Murashov, D. M.) Software for an integrated control system taking nonlinearities of the object into account. (Russian) **90a:49041**
Colonius, F. (*with* Kliemann, W.) Extremal exponential growth rates of bilinear control systems. **90k:49038**
Geerts, Ton ★ The computation of optimal controls for the singular linear-quadratic problem that yield internal stability. **90i:49048**
Kliemann, W. *see* **Colonius, F., 90k:49038**
Meeker, L. David Local time-optimal feedback control of strictly normal two-input linear systems. **90b:49057**
Murashov, D. M. *see* **Akaev, A. B., 90a:49041**
Shaginyan, S. G. Optimal stabilization of not completely controllable systems. (Russian. English and Armenian summaries) **90e:49050**

Items with secondary classifications in 49E20

Amann, Herbert Feedback stabilization of linear and semilinear parabolic systems. **90k:35138**
Ganesh, C. (*with* Pearson, J. B.) H^2-optimization with stable controllers. **90m:93058**
Hinrichsen, D. (*with* Motscha, Matthias) Optimization problems in the robustness analysis of linear state space systems. **90c:93035**
Motscha, Matthias *see* **Hinrichsen, D., 90c:93035**

Pan, Wei An inverse problem of linear optimal control. (Chinese. English summary) **90m:49027**
Pearson, J. B. *see* **Ganesh, C., 90m:93058**
Przyłuski, K. Maciej On a theorem of Megan and Zabczyk. **90b:93057**
Rantzer, Anders Equivalence between stability of partial realizations and feedback stabilization—applications to reduced order stabilization. **90m:93100**

49E25 Effect of perturbations on controllability

Balachandran, Krishnan Controllability of perturbed nonlinear systems. **90g:49029**
— Nonlinear perturbations of quasi-linear delay control systems. **90b:49058**
Burns, John A. (*with* Peichl, Gunther H.) On robustness of controllability for finite-dimensional approximations of distributed parameter systems. (*see* **90m:93002**)
— (*with* Peichl, Gunther H.) Preservation of controllability under approximation and controllability radii for hereditary systems. **90c:49078**
Dai, Guo Sheng Structural characteristics of noncontrollable and nonobservable networks. (Chinese. English summary) (Not in MR)
Gracia, Juan-M. (*with* de Hoyos, Inmaculada; Zaballa, Ion) Perturbation of linear control systems. **90g:49030**
de Hoyos, Inmaculada *see* **Gracia, Juan-M.; et al., 90g:49030**
Lions, Jacques-Louis Sentinels for periodic distributed systems. **90m:49030**
Meeker, L. David Local measurement stability of fourth order time-optimal control systems. (*see* **90j:00016**)
Pandolfi, L. Controllability properties of perturbed distributed parameter systems. **90i:49049**
Peichl, Gunther H. *see* **Burns, John A., 90c:49078** *and* (**90m:93002**)
Senin, E. I. (*with* Soldunov, V. A.) Admissible estimates for the set of feasible states of a linear system under the action of restricted perturbations. (Not in MR)
Soldunov, V. A. *see* **Senin, E. I.**, (Not in MR)
Zaballa, Ion *see* **Gracia, Juan-M.; et al., 90g:49030**

Items with secondary classifications in 49E25

(Bardos, Claude) *see* **Lions, Jacques-Louis, 90a:49040**
Do, V. N. A note on approximate controllability of semilinear systems. **90e:93010**
(Lebeau, Gilles) *see* **Lions, Jacques-Louis, 90a:49040**
Lions, Jacques-Louis ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 1. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 1] **90a:49040**
(Rauch, Jeffrey) *see* **Lions, Jacques-Louis, 90a:49040**
(Zuazua, Enrike) *see* **Lions, Jacques-Louis, 90a:49040**

49E30 Relations between controllability and optimal solutions

Emirsajłow, Zbigniew A feedback for an infinite-dimensional linear-quadratic control problem with a fixed terminal state. **90g:49031**
Roxin, Emilio O. Application of holding sets to optimal control. (*see* **90j:00016**)

Items with secondary classifications in 49E30

Evans, L. C. (*with* James, M. R.) The Hamilton-Jacobi-Bellman equation for time-optimal control. **90j:49020**
James, M. R. *see* **Evans, L. C., 90j:49020**
Lions, Jacques-Louis Problèmes aux limites non classiques pour équations d'évolution. (English summary) [Nonclassical boundary value problems for evolution equations] **90i:49024**
Reshetnyak, Yu. N. Summation of ellipsoids in a problem of guaranteed estimation. (Russian) **90f:49035**
Vel'ov, V. M. On the controllability of control constrained linear systems. **90i:49047**
Warga, J. Higher-order conditions for conical controllability. **90d:49028**
— Global directional controllability. **90g:93014**

49E99 None of the above, but in this section

Items with secondary classifications in 49E99

Kaul, S. K. A semi-dynamical system associated with a general control system. **90b:93004**
Kupka, Ivan A. K. Generalized Hamiltonians and optimal control: a geometric study of the extremals. **90a:58038**

49Fxx Manifolds [see also 58Exx]

49F05 Exterior differential forms, invariant integrals (Cartan theory) [See mainly 58A15]

Items with secondary classifications in 49F05

Gardner, Robert B. (*with* Shadwick, William F.; Wilkens, George) A geometric isomorphism with applications to closed loop controls. **90i:93020**
Gershkovich, V. Ya. *see* **Vershik, A. M., 90d:58010**
(von Helmholtz, Hermann) *see* **Hermann, Robert, 90h:58001**
Hermann, Robert ★ Topics in physical geometry. **90h:58001**
Kamran, Niky (*with* Olver, Peter J.) Le problème d'équivalence à une divergence près dans le calcul des variations des intégrales multiples. (English summary) [The problem of equivalence up to a divergence in the calculus of variations for multiple integrals] **90m:58054**
— (*with* Olver, Peter J.) Equivalence problems for first order Lagrangians on the line. **90g:58029**
Olver, Peter J. *see* **Kamran, Niky, 90g:58029** *and* **90m:58054**
Ortel, Marvin (*with* Schneider, Walter J.) A parametric Gauss-Green theorem in several variables. **90f:26012**
Rund, Hanno Legendre transformations and Cartan forms in the calculus of variations of multiple integrals. **90f:58047**
— Legendre transformations and Cartan forms in the calculus of variations of multiple integrals. **90m:58056**
Schneider, Walter J. *see* **Ortel, Marvin, 90f:26012**
Shadwick, William F. *see* **Gardner, Robert B.; et al., 90i:93020**
Vershik, A. M. (*with* Gershkovich, V. Ya.) Nonholonomic problems and the theory of distributions. **90d:58010**
Wilkens, George *see* **Gardner, Robert B.; et al., 90i:93020**

49F10 Minimal surfaces [See mainly 53A10, also 58E12]

Andresen, Bjarne *see* **Salamon, Peter; et al., 90m:49032**
Bernholc, J. *see* **Salamon, Peter; et al., 90m:49032**
Berry, R. Stephen *see* **Salamon, Peter; et al., 90m:49032**
Carrera-Patiño, Martin E. *see* **Salamon, Peter; et al., 90m:49032**
Carriero, M. (*with* Dal Maso, Gianni; Leaci, A.; Pascali, E.) Relaxation of the nonparametric plateau problem with an obstacle. **90c:49079**
Dal Maso, Gianni *see* **Carriero, M.; et al., 90c:49079**
Dierkes, Ulrich Minimal hypercones and $C^{0,1/2}$ minimizers for a singular variational problem. **90d:49029**
— A classification of minimal cones in $\mathbf{R}^n \times \mathbf{R}^+$ and a counterexample to interior regularity of energy minimizing functions. **90h:49032**
— (*with* Huisken, Gerhard) The n-dimensional analogue of the catenary: existence and nonexistence. **90j:49031**
Ecker, Klaus Area-minimizing integral currents with movable boundary parts of prescribed mass. (French summary) **90f:49036**
(Feinberg, Jerry M.) *see* **Nitsche, Johannes C. C., 90m:49031**
Giusti, Enrico Quadratic functionals with splitting coefficients. **90b:49059**
Hardt, R. (*with* Lin, Fang-Hua) Partially constrained boundary conditions with energy minimizing mappings. **90b:49060**
Heinz, Erhard On quasi-minimal surfaces. **90a:49042**
Huisken, Gerhard *see* **Dierkes, Ulrich, 90j:49031**
Krust, Romain Remarques sur le problème extérieur de Plateau. [Remarks on the exterior Plateau problem] **90i:49050**
Leaci, A. *see* **Carriero, M.; et al., 90c:49079**
Lin, Fang-Hua *see* **Hardt, R., 90b:49060**
Musina, Roberta H-surfaces with obstacles. (Italian) **90j:49032**
Nance, Dana A class of weakened special Lagrangian calibrations. **90g:49032**
Nitsche, Johannes C. C. ★ Lectures on minimal surfaces. Vol. 1. **90m:49031**
Parks, Harold R. Partial regularity of functions of least gradient in $\mathbf{R}^8$. **90i:49051**
Pascali, E. *see* **Carriero, M.; et al., 90c:49079**
Rassias, Themistocles M. Plateau's problem and its importance to physics. (Greek summary) (Not in MR)
Salamon, Peter (*with* Bernholc, J.; Berry, R. Stephen; Carrera-Patiño, Martin E.; Andresen, Bjarne) The wetted solid—a generalization of the Plateau problem and its implications for sintered materials. **90m:49032**
Shibata, Keiichi Orthogonal stance of a minimal surface against its bounding surfaces. **90k:49039**
Tamanini, Italo Variational problems of least area type with constraints. **90j:49033**
Wei, S. Walter Plateau's problem in symmetric spaces. **90f:49037**
White, Brian Cabell New applications of mapping degrees to minimal surface theory. **90e:49051**

Items with secondary classifications in 49F10

Amur, Krishna Variational properties of total mean curvatures of a hypersurface. **90c:53017**
Baumbach, Eckhard (*with* Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. I. Ein Problem der Mathematik und der Chemie. [Soap bubble surfaces in various regular bodies. I. A problem of mathematics and chemistry] **90b:49001a**
— (*with* Hoffmann, Bernd-D.) Seifenhautflächen in verschiedenen regelmäßigen Körpern. II. [Soap bubble surfaces in various regular bodies. II] **90b:49001b**
Brézis, Haïm S^k-valued maps with singularities. **90f:58029**
Caffarelli, Luis A. Free boundary problems. A survey. **90f:35208**
Concus, Paul (*with* Finn, Robert) Instability of certain capillary surfaces. **90d:53009**
Coppin, Charles Arthur (*with* Greenspan, Donald) A contribution to the particle modeling of soap films. **90a:65013**
Đào Trọng Thi (*with* Fomenko, A. T.) ★ Минимальные поверхности и проблема Плато. (Russian) [Minimal surfaces and Plateau's problem] **90a:58036**
Finn, Robert On the maximum principle. **90e:58022**
— The inclination of an H-graph. **90b:35084**
— *see also* **Concus, Paul, 90d:53009**
Fischer, Werner (*with* Koch, Elke) On 3-periodic minimal surfaces. **90c:53018**
— (*with* Koch, Elke) New surface patches for minimal balance surfaces. I. Branched catenoids. **90d:53011**
— *see also* **Koch, Elke, 90d:53012**
Fomenko, A. T. *see* **Đào Trọng Thi, 90a:58036** *and* **Giusti, Enrico, 90g:58024**
Giusti, Enrico ★ Минимальные поверхности и функции ограниченной вариации. (Russian) [Minimal surfaces and functions of bounded variation] **90g:58024**
Gluck, Herman (*with* Morgan, Frank; Ziller, W.) Calibrated geometries in Grassmann manifolds. **90h:53077**
Greenspan, Donald *see* **Coppin, Charles Arthur, 90a:65013**
Gulliver, Robert Minimal surfaces of finite index in manifolds of positive scalar curvature. **90c:53021**
Hildebrandt, Stefan The calculus of variations today. **90k:01018**
Hoffman, David A. (*with* Meeks, William H., III) A variational approach to the existence of complete embedded minimal surfaces. **90c:53023**
— (*with* Meeks, William H., III) The asymptotic behavior of properly embedded minimal surfaces of finite topology. **90f:53010**
Hoffmann, Bernd-D. *see* **Baumbach, Eckhard, 90b:49001a** *and* **90b:49001b**

Huang, Chên Fang Comparison principles and Liouville theorems for prescribed mean curvature equations in unbounded domains. 90m:35019
Hvidsten, Michael D. Volume and energy stability for isometric minimal immersions. 90c:53155
Ji, Min An a priori estimate for Douglas problem in Riemannian manifolds. 90m:58035
Jiang, Lei Minimal hypersurfaces of revolution in Euclidean spaces. (Chinese) 90f:53011
Jost, J. Das Existenzproblem für Minimalflächen. [The existence problem for minimal surfaces] 90e:58019
Karcher, Hermann The triply periodic minimal surfaces of Alan Schoen and their constant mean curvature companions. 90g:53010
Koch, Elke (*with* Fischer, Werner) New surface patches for minimal balance surfaces. II. Multiple catenoids. 90d:53012
— *see also* **Fischer, Werner, 90c:53018** *and* **90d:53011**
Langevin, Rémi (*with* Rosenberg, Harold) A maximum principle at infinity for minimal surfaces and applications. 90c:53025
Laurence, Peter On the convexity of geometric functionals of level for solutions of certain elliptic partial differential equations. 90b:35094
Lin, Jun Min (*with* Xia, Chang Yu) Geometrical and topological obstructions of minimal hypersurfaces in $S^5(1)$. 90b:53072
Meeks, William H., III (*with* Rosenberg, Harold) The global theory of doubly periodic minimal surfaces. 90m:53017
— *see also* **Hoffman, David A., 90c:53023** *and* **90f:53010**
Morel, Jean-Michel (*with* Solimini, Sergio) Segmentation d'images par méthode variationnelle: une preuve constructive d'existence. (English summary) [Image segmentation by a variational method: a constructive existence proof] 90e:58020
Morgan, Frank *see* **Gluck, Herman; et al., 90h:53077**
Pacard, Frank Convergence of surfaces of prescribed mean curvature. 90m:58036
Pitts, Jon T. (*with* Rubinstein, J. Hyam) Equivariant minimax and minimal surfaces in geometric three-manifolds. 90a:53014
(Pluzhnikov, A. I.) *see* **Giusti, Enrico, 90g:58024**
Rosenberg, Harold *see* **Langevin, Rémi, 90c:53025** *and* **Meeks, William H., III, 90m:53017**
Rubinstein, J. Hyam *see* **Pitts, Jon T., 90a:53014**
Sauvigny, Friedrich On the total number of branch points of quasi-minimal surfaces bounded by a polygon. 90e:53015
(Shenitzer, A.) *see* **Hildebrandt, Stefan, 90k:01018**
Solimini, Sergio *see* **Morel, Jean-Michel, 90e:58020**
Struwe, Michael ★ Plateau's problem and the calculus of variations. 90h:58016
— Applications of variational methods to problems in the geometry of surfaces. 90d:58030
Tomi, Friedrich (*with* Tromba, Anthony) Existence theorems for minimal surfaces of nonzero genus spanning a contour. 90a:58032
Tromba, Anthony *see* **Tomi, Friedrich, 90a:58032**
Xia, Chang Yu *see* **Lin, Jun Min, 90b:53072**
Ziller, W. *see* **Gluck, Herman; et al., 90h:53077**

49F15 Morse theory in Hilbert and other spaces [see also 57R27, 58Exx]

Items with secondary classifications in 49F15

Bahri, Abbas (*with* Lions, P.-L.) Morse index of some min-max critical points. I. Application to multiplicity results. 90b:58035
D'Onofrio, Biancamaria (*with* Ekeland, Ivar) Hamiltonian systems with elliptic periodic orbits. 90m:58066
Ekeland, Ivar *see* **D'Onofrio, Biancamaria, 90m:58066**
Lions, P.-L. *see* **Bahri, Abbas, 90b:58035**
Mawhin, J. (*with* Willem, M.) ★ Critical point theory and Hamiltonian systems. 90e:58016
Solimini, Sergio Morse index estimates in min-max theorems. 90f:58028
Struwe, Michael Applications of variational methods to problems in the geometry of surfaces. 90d:58030
Tanaka, Kazunaga Morse indices at critical points related to the symmetric mountain pass theorem and applications. 90i:58019
Willem, M. *see* **Mawhin, J., 90e:58016**

49F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [see also 28A75, 32C30, 58A25, 58C35]

Almgren, Frederick J., Jr. (*with* Lieb, Elliott H.) Symmetric decreasing rearrangement is sometimes continuous. 90f:49038
Cianchi, Andrea A sharp form of Poincaré type inequalities on balls and spheres. (Italian summary) 90k:49040
Hardt, R. (*with* Kinderlehrer, D.) Mathematical questions of liquid crystal theory. 90h:49033
Kinderlehrer, D. *see* **Hardt, R., 90h:49033**
Lieb, Elliott H. *see* **Almgren, Frederick J., Jr., 90f:49038**
Lin, Fang-Hua Asymptotic behavior of area-minimizing currents in hyperbolic space. 90c:49080
Mumford, David (*with* Shah, Jayant) Optimal approximations by piecewise smooth functions and associated variational problems. 90g:49033
Shah, Jayant *see* **Mumford, David, 90g:49033**
Solomon, Bruce (*with* White, Brian Cabell) A strong maximum principle for varifolds that are stationary with respect to even parametric elliptic functionals. 90i:49052
White, Brian Cabell A new proof of the compactness theorem for integral currents. 90e:49052
— *see also* **Solomon, Bruce, 90i:49052**
Zworski, Maciej Decomposition of normal currents. 90a:49043

Items with secondary classifications in 49F20

Congedo, Giuseppe (*with* Tamanini, Italo) Notes on the regularity of minimizers of least area functionals. (Italian. English summary) 90b:49003
Đào Trọng Thi Topological methods in the calculus of variations. 90g:58025
Ecker, Klaus Area-minimizing integral currents with movable boundary parts of prescribed mass. (French summary) 90f:49036
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity. 90c:58044
— Minimizing variational integrals among diffeomorphisms. 90m:58053
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 90c:58044**
Müller, Stefan Weak continuity of determinants and nonlinear elasticity. (French summary) 90b:49023
— A surprising higher integrability property of mappings with positive determinant. 90c:49022
Souček, Jiří *see* **Giaquinta, Mariano; et al., 90c:58044**
Suyama, Yoshihiko Area-minimizing hypersurfaces defined by homotopy classes of mappings of 1-essential manifolds. 90d:58032
Tamanini, Italo *see* **Congedo, Giuseppe, 90b:49003**
Taylor, Jean E. Local ellipticity of F and regularity of $\mathbf{F}$ minimizing currents. 90k:49043
Wei, S. Walter Plateau's problem in symmetric spaces. 90f:49037

49F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) The Dirichlet energy of mappings with values into the sphere. 90i:49053
Luckhaus, S. (*with* Modica, Luciano) The Gibbs-Thompson relation within the gradient theory of phase transitions. 90k:49041
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 90i:49053**
Modica, Luciano *see* **Luckhaus, S., 90k:49041**
Morgan, Frank The torus lemma on calibrations, extended. 90c:49081
— A sharp counterexample on the regularity of Φ-minimizing hypersurfaces. 90k:49042
Souček, Jiří *see* **Giaquinta, Mariano; et al., 90i:49053**
Taylor, Jean E. Local ellipticity of F and regularity of $\mathbf{F}$ minimizing currents. 90k:49043

Items with secondary classifications in 49F22

Ambrosio, L. (*with* Dal Maso, Gianni) A general chain rule for distributional derivatives. 90j:26019
Carriero, M. *see* **De Giorgi, E.; et al., 90j:49002**
Dal Maso, Gianni *see* **Ambrosio, L., 90j:26019**
De Giorgi, E. (*with* Carriero, M.; Leaci, A.) Existence theorem for a minimum problem with free discontinuity set. 90j:49002
Dierkes, Ulrich Boundary regularity for solutions of a singular variational problem with linear growth. 90b:35107
— A geometric maximum principle for surfaces of prescribed mean curvature in Riemannian manifolds. (German and Russian summaries) 90g:53007
Ecker, Klaus Area-minimizing integral currents with movable boundary parts of prescribed mass. (French summary) 90f:49036
Hardt, R. (*with* Kinderlehrer, D.; Luskin, Mitchell) Remarks about the mathematical theory of liquid crystals. 90m:82041
Horihata, Kazuhiro Pointwise property of L^p-functions with Nikol′skiĭ condition. (Italian summary) 90m:46057
Kinderlehrer, D. *see* **Hardt, R.; et al., 90m:82041**
Leaci, A. *see* **De Giorgi, E.; et al., 90j:49002**
Luskin, Mitchell *see* **Hardt, R.; et al., 90m:82041**
Nowakowski, Andrzej Field theories in the modern calculus of variations. 90a:49027
White, Brian Cabell A new proof of the compactness theorem for integral currents. 90e:49052

49F25 Surface area; Weierstrass and Burkill integrals, subadditive set functions

Vinti, Calogero On the Weierstrass integrals of the calculus of variations over BV varieties: recent results of the mathematical seminar in Perugia. 90m:49033

Items with secondary classifications in 49F25

Brandi, Primo (*with* Salvadori, Anna) On the lower semicontinuity of certain integrals of the calculus of variations. 90m:49005
Fiacca, Antonella The Burkhill-Cesari integral for Banach-space-valued set functions. (Italian. English summary) 90d:28012
Salvadori, Anna *see* **Brandi, Primo, 90m:49005**

49F99 None of the above, but in this section

Delfour, M. C. (*with* Zolésio, J.-P.) Shape analysis and optimization: Lagrangian methods and applications. 90f:49039
Haslinger, J. (*with* Neittaanmäki, Pekka) On the design of the optimal covering of an obstacle. 90c:49082
Neittaanmäki, Pekka *see* **Haslinger, J., 90c:49082**
Zolésio, J.-P. *see* **Delfour, M. C., 90f:49039**

Items with secondary classifications in 49F99

Barber, James S. (*with* Horndeski, Gregory W.) Higher order versions of Noether's theorem. 90c:58043
Barnes, David C. The shape of the strongest column is arbitrarily close to the shape of the weakest column. 90a:73080
Bieber, Robert ★ Der Satz von Emmy Noether über invariante Variationsprobleme. (German) [Emmy Noether's theorem on invariant variational problems] 90d:58005
Blank, M. L. Metric properties of minimal solutions of discrete periodical variational problems. 90d:58031
Carriero, M. (*with* Dal Maso, Gianni; Leaci, A.; Pascali, E.) Relaxation of the nonparametric plateau problem with an obstacle. 90c:49079

Dal Maso, Gianni *see* **Carriero, M.; et al., 90c:49079**
Delfour, M. C. (*with* Zolésio, J.-P.) Further developments in the application of min max differentiability to shape sensitivity analysis. **90b:49025**
Essawy, Abdelraiman H. A two-dimensional optimum body shape problem in water waves. **90a:76055**
Fuchs, Martin^{2} Some regularity theorems for mappings which are stationary points of the p-energy functional. **90f:58032**
Fujii, Nobuo *see* **Goto, Yoshito, 90j:49021**
Goto, Yoshito (*with* Fujii, Nobuo) A Newton's method in a domain optimization problem. **90j:49021**
Hansen, Vagn Lundsgaard Minima for elastics on rigid cylinders. **90g:73042**
Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. **90c:49010**
Hildebrandt, Stefan (*with* Tromba, Anthony) ★ Panoptimum. (German) **90k:00007**
Horndeski, Gregory W. *see* **Barber, James S., 90c:58043**
Leaci, A. *see* **Carriero, M.; et al., 90c:49079**
Lions, P.-L. (*with* Pacella, Filomena) Isoperimetric inequalities for convex cones. **90i:52021**
Miersemann, Erich On the behaviour of capillaries at a corner. **90j:35081**
Neittaanmäki, Pekka *see* **Haslinger, J., 90c:49010**
Nozdracheva, V. P. A priori estimation of the length of a closed trajectory on a plane. **90f:34016**
Osipov, Yu. S. (*with* Suetov, A. P.) Qualitative problems in the theory of construction optimization. (Russian) **90c:49004**
Pacella, Filomena *see* **Lions, P.-L., 90i:52021**
Pascali, E. *see* **Carriero, M.; et al., 90c:49079**
Schoen, Richard Variational theory for the total scalar curvature functional for Riemannian metrics and related topics. **90g:58023**
Suetov, A. P. *see* **Osipov, Yu. S., 90c:49004**
Tromba, Anthony *see* **Hildebrandt, Stefan, 90k:00007**
Virga, Epifanio G. Drops of nematic liquid crystals. **90j:73019**
Zolésio, J.-P. *see* **Delfour, M. C., 90b:49025**

49Gxx Variational methods for eigenvalues [see also 47A70]

49G05 Variational approach to eigenvalues

Auchmuty, Giles Variational principles for eigenvalues of compact operators. **90j:49034**
Pascali, Dan Some variational eigenvalue principles. **90a:49044**

Items with secondary classifications in 49G05

Barles, G. Remarks on uniqueness results of the first eigenvalue of the p-Laplacian. (French summary) **90b:35173**
Cheng, Bao Long *see* **Shen, Yao Tian; et al., 90f:35078**
Degiovanni, M. (*with* Marino, Antonio) Nonsmooth variational bifurcation. (Italian summary) **90g:58020**
Dittmar, Bodo Monotonie bei Stekloffschen Eigenwerten. (English summary) [Monotonicity in Steklov eigenvalues] **90g:35038**
Dost, Sadik (*with* Tabrrok, B.) A mixed variational formulation for large deformation analysis of plates. **90g:73065**
Filippov, V. M. ★ Variational principles for nonpotential operators. **90i:47066**
Guo, Xin Kang *see* **Shen, Yao Tian; et al., 90f:35078**
Lü, De *see* **Shen, Yao Tian; et al., 90f:35078**
Marino, Antonio *see* **Degiovanni, M., 90g:58020**
Pascali, Dan Nonlinear variational eigenvalue inclusions. **90j:58024**
Sarkar, Tapan K. (*with* Yang, Xiaopu) Application of the conjugate gradient and steepest descent for computing the eigenvalues of an operator. (French and German summaries) **90m:65243**
(Savchin, V. M.) *see* **Filippov, V. M., 90i:47066**
(Schulenberger, J. R.) *see* **Filippov, V. M., 90i:47066**
Shen, Yao Tian (*with* Lü, De; Cheng, Bao Long; Guo, Xin Kang) An eigenvalue problem of quasilinear elliptic systems. (Chinese) **90f:35078**
Tabrrok, B. *see* **Dost, Sadik, 90g:73065**
Yang, Xiaopu *see* **Sarkar, Tapan K., 90m:65243**

49G10 Rayleigh-Ritz methods

Items with secondary classifications in 49G10

Giusti, Enrico Quadratic functionals with splitting coefficients. **90b:49059**
Kaschiev, M. S. An iterative method for minimization of the Rayleigh-Ritz functional. (Russian) **90f:65054**
Žitňan, Peter An a posteriori error estimation of the Rayleigh-Ritz eigenvalues. **90d:35223**

49G15 Weinstein and Aronszajn methods, intermediate problems

Items with secondary classifications in 49G15

Almássy, T. (*with* Patkós, A.) Systematic lower bounds for lattice Hamiltonians. **90f:81078**
Beattie, Christopher (*with* Ruskai, Mary Beth) Location of essential spectrum of intermediate Hamiltonians restricted to symmetry subspaces. **90j:81034**
Patkós, A. *see* **Almássy, T., 90f:81078**
Ruskai, Mary Beth *see* **Beattie, Christopher, 90j:81034**

49G20 Linear operators in Hilbert spaces

Grubb, A. (*with* Sharma, C. S.) Bounds on eigenvalues of the product and the Jordan product of two positive definite operators on a finite-dimensional Hilbert space. **90e:49053**
Sharma, C. S. *see* **Grubb, A., 90e:49053**

Items with secondary classifications in 49G20

Banach, Antoni *see* **Beattie, Christopher, 90j:65082**
Beattie, Christopher (*with* Banach, Antoni) Rapid resolution of truncated intermediate problems. **90j:65082**
Hook, Stephen M. Inequalities for eigenvalues of selfadjoint operators. **90f:47024**
Iskenderov, A. D. (*with* Yagubov, G. Ya.) A variational method for solving an inverse problem of determining the quantum mechanical potential. **90c:81033**
Lebedev, V. I. A method of composition, and Poincaré-Steklov operators. (Russian) **90d:65110**
Yagubov, G. Ya. *see* **Iskenderov, A. D., 90c:81033**

49G99 None of the above, but in this section

Items with secondary classifications in 49G99

Li, Gong Bao Eigenvalue problems of quasilinear elliptic systems on $\mathbf{R}^n$. **90e:35072**

49H05 Variational principles of physics [see also 70-XX, 81-XX]

Jones, S. E. *see* **Vujanović, B. D., 90j:49035**
Korobitsyn, V. A. Invariant variational-difference schemes and conservation laws. (Russian) **90g:49034**
Vujanović, B. D. (*with* Jones, S. E.) ★ Variational methods in nonconservative phenomena. **90j:49035**

Items with secondary classifications in 49H05

Ahmed, Mosleh U. Fundamental theorems of invariance and its applications. (Bengali summary) **90b:58057**
Akulenko, L. D. Constructive control of the motion of oscillating systems with discrete and distributed parameters. (Russian) **90j:93081**
Albu, I. D. (*with* Opriş, D.) Geometry of the bundle Tr($\mathscr{D}$) ⊕ $T^*(\mathscr{D})$. **90j:53055**
Bayada, Guy (*with* Chambat, Michèle; El Alaoui Talibi, M.) Stationary and moving free boundary problems related to the cavitation problems. **90a:76113**
Bogatyreva, N. A. (*with* Pyatnitskiĭ, E. S.) The minimax principle of mechanics and its application to optimal control problems. **90e:70021**
Brenier, Yann The least action principle and the related concept of generalized flows for incompressible perfect fluids. **90g:58012**
Brown, G. J. N. (*with* Crothers, D. S. F.) Generalised gauge invariance of electromagnetism. **90k:78003**
Burton, G. R. Rearrangements of functions, saddle points and uncountable families of steady configurations for a vortex. **90m:58052**
Castañeda, P. Ponte The overall constitutive behaviour of nonlinearly elastic composites. **90e:73039**
Cendra, Hernan (*with* Ibort, Luis A.; Marsden, J. E.) Variational principles on principal fiber bundles: a geometric theory of Clebsch potentials and Lin constraints. **90e:58038**
Chambat, Michèle *see* **Bayada, Guy; et al., 90a:76113**
Crothers, D. S. F. *see* **Brown, G. J. N., 90k:78003**
Demkowicz, L. *see* **Szefer, G.; et al., 90e:73043**
Douglas, J., Jr. (*with* Gupta, Chaitan P.) Superconvergence and interior estimates for a mixed finite element method for elastic waves in a planar domain. (Portuguese summary) **90k:65172**
El Alaoui Talibi, M. *see* **Bayada, Guy; et al., 90a:76113**
Eydeland, Alexander (*with* van Groesen, E.) An extended self-organisation principle for modelling and calculating the dissipation of 2D confined vortices. **90g:76047**
Fonte, G. Extension of a recent theory of variational principles in complex Banach spaces. (Italian and Russian summaries) **90a:58039**
Gao, Yang (*with* Huang, Ke Zhi) Complementary energy principles for elasto-perfect plasticity. **90c:73042**
— (*with* Strang, Gilbert) Geometric nonlinearity: potential energy, complementary energy, and the gap function. **90k:73024**
Garaev, K. G. A remark on E. Noether's theory. (Russian) **90k:58253**
van Groesen, E. *see* **Eydeland, Alexander, 90g:76047**
Gupta, Chaitan P. *see* **Douglas, J., Jr., 90k:65172**
Huang, Ke Zhi *see* **Gao, Yang, 90c:73042**
Huang, Yong Jian Variational principles in linear elastodynamics. (Chinese. English summary) **90e:73042**
Ibort, Luis A. *see* **Cendra, Hernan; et al., 90e:58038**
Kamath, S. G. The brachistochrone in almost flat space. **90a:70020**
Kinderlehrer, D. (*with* Vergara-Caffarelli, Giorgio) The relaxation of functionals with surface energies. **90m:49025**
Kobelev, V. V. An isoperimetric inequality in a problem of the stability of a circular ring under normal pressure. **90f:73036**
Kraiko, A. N. Planar and axially symmetric configurations which are circumvented with the maximum critical Mach number. **90i:76110**
Loffredo, Maria I. (*with* Morato, Laura M.) Lagrangian variational principle in stochastic mechanics: gauge structure and stability. **90c:81049**
Marsden, J. E. *see* **Cendra, Hernan; et al., 90e:58038**
Misawa, Tetsuya Noether's theorem in symmetric stochastic calculus of variations. **90f:81033**
Morato, Laura M. *see* **Loffredo, Maria I., 90c:81049**
Mróz, Z. *see* **Szefer, G.; et al., 90e:73043**
Opriş, D. *see* **Albu, I. D., 90j:53055**
Pyatnitskiĭ, E. S. *see* **Bogatyreva, N. A., 90e:70021**
Ray, John R. *see* **Smalley, L. L., 90a:83070**

Schmid, Rudolf (*with* Simoni, Alberto) On infinite-dimensional variational principles with constraints. **90e:58039**
Simoni, Alberto *see* **Schmid, Rudolf, 90e:58039**
Smalley, L. L. (*with* Ray, John R.) On the Lagrangian formulation of spinning fluids in Riemann-Cartan spacetime. **90a:83070**
Strang, Gilbert *see* **Gao, Yang, 90k:73024**
Szefer, G. (*with* Mróz, Z.; Demkowicz, L.) Variational approach to sensitivity analysis in nonlinear elasticity. (Russian and Polish summaries) **90e:73043**
Talbot, D. R. S. (*with* Willis, J. R.) Bounds and self-consistent estimates for the overall properties of nonlinear composites. **90c:73030**
Telega, Józef Joachim On the complementary energy principle in nonlinear elasticity. I. von Kármán plates and three-dimensional solids. (French summary) **90k:73025**
Toland, J. F. (*with* Willis, J. R.) Duality for families of natural variational principles in nonlinear electrostatics. **90i:78010**
Valid, Roger Formulation symétrique couplée primale-duale et concept de masse ajoutée en élastodynamique non linéaire. (English summary) [Coupled primal-dual symmetric formulation and added-mass concept in nonlinear elastodynamics] **90g:73044**
Vergara-Caffarelli, Giorgio *see* **Kinderlehrer, D., 90m:49025**
Virga, Epifanio G. On the variation of the Hamiltonian functional for an immiscible mixture. **90a:76043**
Willis, J. R. *see* **Talbot, D. R. S., 90c:73030** *and* **Toland, J. F., 90i:78010**

51–XX Geometry {For algebraic geometry, see 14–XX.}

51–01 Elementary exposition; textbooks

Berger, Marcel (*with* Berry, Jean-Pic; Pansu, Pierre; Saint Raymond, Xavier) ★ Задачи по геометрии с комментариями и решениями. (Russian) [Problems in geometry with hints and solutions] **90c:51001**
Berry, Jean-Pic *see* **Berger, Marcel; et al., 90c:51001**
Beutelspacher, A. (*with* Petri, Bernhard) ★ Der goldene Schnitt. (German) [The golden section] **90i:51001**
Cederberg, Judith N. ★ A course in modern geometries. **90g:51001**
Coxeter, H. S. M. ★ Introduction to geometry. **90a:51001**
(Dombrovskiĭ, M.) *see* **Postnikov, M. M., 90b:51001**
Iversen, Birger ★ An invitation to geometry. **90e:51001**
(Mikheev, P. O.) *see* **Berger, Marcel; et al., 90c:51001**
Pansu, Pierre *see* **Berger, Marcel; et al., 90c:51001**
Pedoe, Dan ★ Geometry. **90h:51001**
Petri, Bernhard *see* **Beutelspacher, A., 90i:51001**
Postnikov, M. M. ★ Geometria analítica. (Portuguese) [Analytic geometry] **90b:51001**
Prasolov, V. V. (*with* Sharygin, I. F.) ★ Задачи по стереометрии. (Russian) [Problems in stereometry] **90h:51002**
(Sabinin, L. V.) *see* **Berger, Marcel; et al., 90c:51001**
Saint Raymond, Xavier *see* **Berger, Marcel; et al., 90c:51001**
Sándor, József ★ Geometriai egyenlőtlenségek. (Hungarian) [Geometric inequalities] **90g:51002**
(Sbitneva, L. V.) *see* **Berger, Marcel; et al., 90c:51001**
Schupp, Hans ★ Kegelschnitte. (German) [Conic sections] **90b:51002**
Sharygin, I. F. *see* **Prasolov, V. V., 90h:51002**
Snapper, Ernst (*with* Troyer, Robert J.) ★ Metric affine geometry. **90j:51001**
Sortais, René *see* **Sortais, Yvonne, 90i:51002**
Sortais, Yvonne (*with* Sortais, René) ★ Géométrie de l'espace et du plan. (French) [Spatial and planar geometry] **90i:51002**
(Trofimov, V. V.) *see* **Berger, Marcel; et al., 90c:51001**
Troyer, Robert J. *see* **Snapper, Ernst, 90j:51001**
Yale, Paul B. ★ Geometry and symmetry. **90g:51003**

Items with secondary classifications in 51–01

Aroca Hernández-Ros, José M. (*with* Fernández Bernejo, María Josefa) ★ Álgebra lineal y geometría. (Spanish) [Linear algebra and geometry] **90e:15001**
Boltyanskiĭ, V. G. Rotation and central symmetry. (Russian) **90m:51005**
Dadayan, A. A. (*with* Dudarenko, V. A.) ★ Алгебра и геометрия. (Russian) [Algebra and geometry] **90m:00005**
Deschauer, Stefan Steiners Satz über die kopunktalen Seitensenkrechten des Dreiecks im Geometrieunterricht. [Steiner's theorem on concurrent perpendiculars of a triangle in the teaching of geometry] **90f:51020**
Dudarenko, V. A. *see* **Dadayan, A. A., 90m:00005**
Fernández Bernejo, María Josefa *see* **Aroca Hernández-Ros, José M., 90e:15001**
Fucke, Rudolf (*with* Kirch, Konrad; Nickel, Heinz) ★ Darstellende Geometrie. (German) [Descriptive geometry] **90f:51031**
Gallarati, Dionisio Gems of Euclidean geometry. (Italian) **90f:51022**
Kalman, Dan The axis of a rotation: analysis, algebra, geometry. **90j:51015**
Kirch, Konrad *see* **Fucke, Rudolf; et al., 90f:51031**
Nickel, Heinz *see* **Fucke, Rudolf; et al., 90f:51031**

51–02 Advanced exposition (research surveys, monographs, etc.)

Artin, E. ★ Geometric algebra. **90h:51003**
Ferrand, Jacqueline ★ Основания геометрии. (Russian) [The foundations of geometry] **90h:51004**
(Ryzhkov, V. V.) *see* **Ferrand, Jacqueline, 90h:51004**

Items with secondary classifications in 51–02

Bokowski, Jürgen (*with* Sturmfels, Bernd) ★ Computational synthetic geometry. **90i:52001**
Ronan, M. A. ★ Lectures on buildings. **90j:20001**
Sturmfels, Bernd *see* **Bokowski, Jürgen, 90i:52001**
Yun, Tian Quan Primary research on subjectivity geometry. (Not in MR)

51–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 51–03

Arreguín, Guillermo Applications of exterior algebra to geometry. (Spanish) **90h:15041**
Baptist, Peter Historische Anmerkungen zu Gergonne- und Nagel-Punkt. [Historical comments on Gergonne and Nagel points] **90d:01027**
Barlotti, Adriano (*with* Rosati, L. A.) Guido Zappa and combinatorial geometry. (Italian) **90c:01056**
Bennett, Mary Katherine *see* **Birkhoff, Garrett, 90a:01041**
Birkhoff, Garrett (*with* Bennett, Mary Katherine) Hilbert's *Grundlagen der Geometrie.* **90a:01041**
Bogolyubov, Alekseĭ Nikolaevich ★ Жан Виктор Понселе. 1788–1867. (Russian) [Jean-Victor Poncelet. 1788–1867] **90b:01062**
(Bolyai, János) *see* **Livanova, Anna, 90m:01028**
(Burali-Forti, Cesare) *see* **Freguglia, Paolo, 90c:01034**
Fava, Franco The Academy's contribution to the development of geometry. (Italian) **90c:01137**
Freguglia, Paolo Cesare Burali-Forti and studies on geometric calculus. (Italian) **90c:01034**
(Gauss, Carl Friedrich) *see* **Livanova, Anna, 90m:01028**
(Hilbert, D.) *see* **Birkhoff, Garrett, 90a:01041**
Hrubeš, Jaromír Logic and history in the development of stereometry. (Czech. English summary) **90j:01009**
Jami, Catherine Western influence and Chinese tradition in an eighteenth century Chinese mathematical work. (French and Chinese summaries) **90a:01009**
Karzel, Helmut (*with* Kroll, Hans-Joachim) ★ Geschichte der Geometrie seit Hilbert. (German) [History of geometry since Hilbert] **90m:01036**
(Krilova, Ņina) *see* **Livanova, Anna, 90m:01028**
(Krilovs, Andrejs) *see* **Livanova, Anna, 90m:01028**
Kroll, Hans-Joachim *see* **Karzel, Helmut, 90m:01036**
Livanova, Anna ★ Trīs likteņi. (Latvian) [Three lives] **90m:01028**
(Lobachevskiĭ, N. I.) *see* **Livanova, Anna, 90m:01028**
Mejlbo, Lars C. ★ Om den elementære geometris historie. (Danish) [On the history of elementary geometry] **90j:01004**
(Poncelet, Jean-Victor) *see* **Bogolyubov, Alekseĭ Nikolaevich, 90b:01062**
(Pozzo, Andrea) *see* **Zhao, Qing Huan, 90g:01006**
Rosati, L. A. *see* **Barlotti, Adriano, 90c:01056**
Wellstein, Hartmut Eine antike Näherungsformel für den Vierecksinhalt. [An ancient approximation formula for the area of the parallelogram] **90f:01003**
(Zappa, Guido) *see* **Barlotti, Adriano, 90c:01056**
Zhao, Qing Huan The effect of *Prospettiva de' pittori, e architetti* by Andrea Pozzo (b. Trent, 1642, d. Vienna, 1709) on Chinese painting, drawing and architecture. **90g:01006**

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Bibliography:
  Poncelet, Jean-Victor *see* **Bogolyubov, Alekseĭ Nikolaevich, 90b:01062**
Biography:
  Bolyai, János *see* **Livanova, Anna, 90m:01028**
  Gauss, Carl Friedrich *see* **Livanova, Anna, 90m:01028**
  Lobachevskiĭ, N. I. *see* **Livanova, Anna, 90m:01028**
  Poncelet, Jean-Victor *see* **Bogolyubov, Alekseĭ Nikolaevich, 90b:01062**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Chou, Shang-Ching ★ Mechanical geometry theorem proving. **90i:51003**
Hayashi, Eiichi A REDUCE application program. **90e:51002**
Ludwig, M. Spezielle Probleme bei der Modellierung geometrischer Objekte—Verknüpfung von Translationsobjekten. [Special problems in the modelling of geometric objects—connection of translation objects] **90e:51003**
Vasiu, Angela (*with* Vlaic, Iuliu) About graphics representation of the surfaces given by parametric equations. (*see* **90d:53002**)
Vlaic, Iuliu *see* **Vasiu, Angela, (90d:53002)**
Wang, Dong Ming A new theorem discovered by computer prover. **90k:51001**
(Wos, Larry) *see* **Chou, Shang-Ching, 90i:51003**

Items with secondary classifications in 51–04

Arnon, Dennis S. (*with* Mignotte, Maurice) On mechanical quantifier elimination for elementary algebra and geometry. **90a:03010**
— (*with* Collins, George E.; McCallum, Scott) An adjacency algorithm for cylindrical algebraic decompositions of three-dimensional space. **90g:68048a**
— A cluster-based cylindrical algebraic decomposition algorithm. **90g:68048b**
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1A05 General theory and projective geometries

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ajola, Sandro Some linear spaces with lines of two lengths. **90i:51007**

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51A10 Homomorphism, automorphism and dualities

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Klotzek, Benno Eine Verallgemeinerung des Satzes von v. Staudt-Hua. (English and Russian summaries) [A generalization of the von Staudt-Hua theorem] **90e:51004**

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51A15 Structures with parallelism

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51A20 Configuration theorems

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51A30 Desarguesian and Pappian geometries

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— Hyperoskulierende Kegelschnitte in Pappos-Ebenen der Charakteristik zwei. [Hyperosculating conics in Pappos planes of characteristic two] **90j:51003**

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Wang, Dong Ming A new theorem discovered by computer prover. **90k:51001**
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51A35 Non-Desarguesian affine and projective planes

Chen, Gai Spreads and the construction of non-Desarguesian planes. (Chinese. English summary) **90d:51004**
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Faulkner, John R. A geometric construction of Moufang planes. **90f:51003**
Johnson, Norman Lloyd^{1} Derivation is a polarity. **90d:51006**
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Evans, Anthony B. On planes of prime order with translations and homologies. **90e:51015**
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51A40 Translation planes and spreads

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— Sequences of derivable translation planes. **90c:51007**
— Nest replaceable translation planes. **90k:51006**
— The derivation of dual translation planes. **90k:51007**
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51A45 Incidence structures imbeddable into projective geometrie

Johnson, Norman Lloyd^{1} Derivable nets and 3-dimensional projective spaces. **90i:51004**
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Tamari, Fumikazu l intersectional empty sets (or l-IE sets) and linear codes. **90c:94033**
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51A99 None of the above, but in this section

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51B05 General theory

Gelbgras, Bernard Remarques sur les revêtements et quotients de géométries. [Remarks o the coverings and quotients of geometries] **90e:51008**
Gevaert, Hans (*with* Keppens, Dirk) Epimorphisms of partial geometries onto generalize quadrangles. **90d:51007**
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51B10 Möbius geometries

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51B20 Minkowski geometries

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Brown, Kenneth S. ★ Buildings. **90e:20001**
Dicuonzo, V. (*with* Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) **90k:51022**
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Pasquali Coluzzi, D. *see* **Dicuonzo, V., 90k:51022**
Ronan, M. A. ★ Lectures on buildings. **90j:20001**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol′evich, 90h:20021**
Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. **90i:20038**
Van der Jeugt, J. A symmetric basis for the E_6 root system. **90j:17050**

51B99 None of the above, but in this section

Items with secondary classifications in 51B99

Barlotti, Adriano (*with* Strambach, Karl) The geometry of double loops. **90b:51019**
Strambach, Karl *see* **Barlotti, Adriano, 90b:51019**

51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Baker, C. A. (*with* Lane, N. D.; Lorimer, J. W.) An affine characterization of Moufang projective Klingenberg planes. **90k:51011**
Faulkner, John R. Barbilian planes. **90f:51006**
Hanssens, G. (*with* Van Maldeghem, H.) A universal construction for projective Hjelmslev planes of level n. **90j:51006**
– (*with* Van Maldeghem, H.) A note on near-Barbilian planes. **90f:51007**
– (*with* Van Maldeghem, H.) On projective Hjelmslev planes of level n. **90j:51007**
James, Donald G. Projective geometry over rings with stable range condition. **90f:51008**
Keppens, Dirk Coordinatization of projective Klingenberg planes. I. Introduction of coordinates and planar sexternary rings. **90c:51010**
– Coordinatization of projective Klingenberg planes. II. Connections between geometric properties of a PK-plane and algebraic properties of a coordinatizing PSR. **90c:51011**
– Neighbor-preserving epimorphisms between projective Klingenberg planes. **90d:51010**
– Distant-preserving epimorphisms between projective Klingenberg planes. **90d:51011**
Lane, N. D. *see* **Baker, C. A.; et al., 90k:51011**
Lorimer, J. W. *see* **Baker, C. A.; et al., 90k:51011**
Van Maldeghem, H. *see* **Hanssens, G., 90f:51007**; **90j:51006** *and* **90j:51007**

Items with secondary classifications in 51C05

Eliseev, E. M. Desarguesian theorems and their connection with collineations of a Hjelmslev projective plane. (Russian) (*see* **90k:51002**)
Jungnickel, Dieter A family of relative difference sets associated with Hjelmslev structures over finite projective spaces. **90g:05044**

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Items with secondary classifications in 51D10

Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. **90e:51011**

51D15 Abstract geometries with parallelism

Prażmowska, Małgorzata (*with* Prażmowski, Krzysztof) An axiom system describing degenerate hyperbolic planes in terms of directed parallelity. **90b:51009**
Prażmowski, Krzysztof *see* **Prażmowska, Małgorzata, 90b:51009**

Items with secondary classifications in 51D15

Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. **90e:51011**
Lenz, Hanfried Zur Begründung der affinen Geometrie des Raumes. [Foundation of the affine geometry of space] **90h:51007**

51D20 Combinatorial geometries [see also 05B25]

Bichara, Alessandro (*with* Somma, Clelia) On Schubert manifold associated with a projective space. **90b:51010**
Glynn, David G. Rings of geometries. II. **90c:51012**
Halsey, Mark D. Extending a combinatorial geometry by adding a unique line. **90e:51011**
Lindström, B. On p-polynomial representations of projective geometries in algebraic combinatorial geometries. **90d:51012**
Lunardon, Guglielmo (*with* Pasini, Antonio) A result on C_3-geometries. **90m:51002**
Marcu, Dănuţ On the representations of projective geometries in algebraic combinatorial geometries. **90e:51012**
Medvedev, V. K. An analogue of the ternary for generalized polygons. **90m:51003**
Melone, N. (*with* Olanda, D.) $\{1,2\}$-semi-affine planar spaces. (Italian. English summary) **90a:51008**
Olanda, D. *see* **Melone, N., 90a:51008**
Pasini, Antonio *see* **Lunardon, Guglielmo, 90m:51002**
Smith, Stephen D. A geometric condition for incidence-matrix nullvectors. **90d:51013**
Somma, Clelia *see* **Bichara, Alessandro, 90b:51010**
Whittle, Geoff Dowling group geometries and the critical problem. **90g:51008**

Items with secondary classifications in 51D20

Blokhuis, A. (*with* Wilbrink, H. A.) Characterization theorems for Zara graphs. **90e:05047**
Ivanov, Aleksandr Anatol′evich Distance-transitive graphs that admit elations. (Russian) **90m:05063**
Kung, Joseph P. S. (*with* Oxley, James G.) Combinatorial geometries representable over GF(3) and GF(q). II. Dowling geometries. **90i:05029**
— Combinatorial geometries representable over GF(3) and GF(q). I. The number of points. **90i:05028**
Oxley, James G. *see* **Kung, Joseph P. S., 90i:05029**
Ronan, M. A. (*with* Smith, Stephen D.) Computation of 2-modular sheaves and representations for $L_4(2)$, A_7, $3S_6$, and M_{24}. **90c:20020**
Smith, Stephen D. *see* **Ronan, M. A., 90c:20020**
Stroth, G. The nonexistence of certain Tits geometries with affine diagram. **90g:20028**
Timmesfeld, F. G. Classical locally finite Tits chamber systems of rank 3. **90i:20038**
Ustimenko, V. A. Groups, quasigroups and Tits geometries. (Russian) **90m:20046**
Van Maldeghem, H. Quadratic quaternary rings with valuation and affine buildings of type $\tilde{C}_2$. **90d:51009**
Wilbrink, H. A. *see* **Blokhuis, A., 90e:05047**
Zieschang, Paul-Hermann The nonexistence of certain geometries of type C_3. **90b:51008**

51D25 Lattices of subspaces [see also 05B35]

Schmidt, Stefan E. Spaces of type n on partially ordered sets. **90f:51009**

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Zuev, Yu. A. Asymptotics of the logarithm of the number of Boolean threshold functions. **90h:94075**

51D99 None of the above, but in this section

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Strantzen, J. B. Infinite dimensions for ordered incidence geometry. **90k:51003**

51Exx Finite geometry

51E05 General block designs [see also 05B05]

Berardi, Luigia A 3-design associated with an n-spread of $\mathrm{PG}(2n+1, q)$. (Italian. English summary) **90d:51014**
Lenz, Hanfried Variations on the projective plane of order four. **90i:51006**
Rajola, Sandro Some linear spaces with lines of two lengths. **90i:51007**

Tallini, G. Geometric spaces and associated linear codes. (Italian. English summary) **90k:51012**
Wei, Wan Di *see* **Yang, Ben Fu, 90h:51010**
Yang, Ben Fu (*with* Wei, Wan Di) Orthogonal geometries over finite fields with characteristic $\neq 2$ and block designs. **90h:51010**

Items with secondary classifications in 51E05

Bannai, Eiichi (*with* Hoggar, S. G.) Tight t-designs and squarefree integers. **90d:05055**
Berardi, Luigia Blocking sets in the large Mathieu designs. II. The case $S(4,7,23)$. **90e:05017**
Black, S. C. (*with* List, R. J.) On certain abelian groups associated with finite projective geometries. **90m:05033**
Boros, Endre (*with* Füredi, Zoltán; Kelly, L. M.) On representing Sylvester-Gallai designs. **90g:05031**
Bruen, A. A. Kummer configurations and designs embedded in planes. **90g:51013**
Buratti, Marco Bruck-Ryser abstract theorem and symmetric designs. **90c:05019**
Füredi, Zoltán *see* **Boros, Endre; et al., 90g:05031**
Hoggar, S. G. Tight 4- and 5-designs in projective spaces. **90d:05056**
— *see also* **Bannai, Eiichi, 90d:05055**
Kelly, L. M. *see* **Boros, Endre; et al., 90g:05031**
Key, J. D. (*with* Rostom, N. K. A.) A characterisation of some finite inversive planes. **90c:51009**
List, R. J. *see* **Black, S. C., 90m:05033**
Lo Re, Pia Maria *see* **de Vito, Paola, 90h:05034**
Mavron, V. C. *see* **McDonough, T. P., 90g:05041**
McDonough, T. P. (*with* Mavron, V. C.) Symmetric designs and geometroids. **90g:05041**
van Oorschot, P. C. (*with* Vanstone, S. A.) A geometric approach to root finding in $\mathrm{GF}(q^m)$. **90e:11184**
Rahilly, Alan Embeddings of maximal arc type in finite projective planes. **90j:51005**
Rostom, N. K. A. *see* **Key, J. D., 90c:51009**
Shen, Hao Finite geometries and the construction of BIB designs. (Chinese) **90f:05019**
Vanstone, S. A. *see* **van Oorschot, P. C., 90e:11184**
de Vito, Paola (*with* Lo Re, Pia Maria) Quasi-symmetric $\{\delta,\mu\}$-biplanes. **90h:05034**

51E10 Steiner systems

Batten, Lynn Margaret Translation triple systems. **90i:51008**
Di Paola, Jane W. (*with* Gropp, Harald) Hyperbolic graphs from hyperbolic planes. **90e:51013**
Gropp, Harald *see* **Di Paola, Jane W., 90e:51013**
Migliori, Grazia Sets of type $(0,2,q/2)$ in a projective plane and Steiner triple system. (Italian. English summary) **90h:51011**
Zeitler, Herbert Miszellen zum Thema Ovale in Steiner-Tripel-Systemen. [Miscellanea on the topic of ovals in Steiner triple systems] **90e:51014**
— Nochmals: Hyperovale in Steiner-Tripel-Systemen. [Hyperovals in Steiner triple systems revisited] **90c:51013**

Items with secondary classifications in 51E10

Eugeni, Franco (*with* Gionfriddo, Mario) On the minimum number of blocks of a maximal partial spread in $\mathrm{STS}(v)$ and $\mathrm{SQS}(v)$. **90i:05015**
Gionfriddo, Mario *see* **Eugeni, Franco, 90i:05015**
Hasan, Z. Intersection of the Steiner systems of M_{24}. **90j:05031**
Kramer, Earl S. (*with* Magliveras, Spyros S.; Mathon, R.) The Steiner systems $S(2,4,25)$ with nontrivial automorphism group. **90k:05028**
Magliveras, Spyros S. *see* **Kramer, Earl S.; et al., 90k:05028**
Mathon, R. *see* **Kramer, Earl S.; et al., 90k:05028**
de Resmini, Marialuisa J. On complete arcs in Steiner systems $S(2,3,v)$ and $S(2,4,v)$. **90j:05045**

51E15 Affine and projective planes

Arasu, K. T. Cyclic affine planes of even order. **90g:51009**
Assmus, E. F., Jr. The coding theory of finite geometries and designs. **90f:51010**
Bachmann, Otto Über projektive Ebenen, die fast fahnentransitiv sind. (English summary) [On projective planes which are almost flag transitive] **90d:51015**
Beutelspacher, A. (*with* Vedder, Klaus) Geometric structures as threshold schemes. **90k:51013**
Bichara, Alessandro An elementary proof of the nonexistence of a projective plane of order six. **90g:51010**
Evans, Anthony B. On planes of prime order with translations and homologies. **90e:51015**
Feit, Walter Finite projective planes and a question about primes. **90e:51016**
Hiramine, Yutaka A conjecture on affine planes of prime order. **90g:51011**
Ho, Chat Y. On multiplier groups of finite cyclic planes. **90e:51017**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) An analog of the Albert-Knuth theorem on the orders of finite semifields, and a complete solution to Cofman's subplane problem. **90i:51009**
Johnson, Norman Lloyd[1] (*with* Pomareda, Rolando) André planes and nests of reguli. **90k:51014**
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— Semifield planes of characteristic p admitting p-primitive Baer collineations. **90h:51012**
— *see also* **Jha, Vikram, 90i:51009**
Joshi, Vinod *see* **Narayana Rao, M. L.; et al., 90i:51012**
Kilmer, Dirk Über die Projektivitätengruppen von Semikörperebenen gerader Ordnung. (English summary) [On the groups of projectivities of semifields of even order] **90f:51011**
Kuppuswamy Rao, K. Finite translation planes. **90i:51011**
— *see also* **Narayana Rao, M. L.; et al., 90i:51012**
Lam, C. W. H. (*with* Thiel, Larry Henry; Swiercz, S.) The nonexistence of finite projective planes of order 10. **90j:51008**
Maurras, Jean-François More on the plane of order 10. (French summary) **90j:51009**
Moorhouse, G. Eric $\mathrm{PSL}(2,q)$ as a collineation group of projective planes of small order. **90h:51013**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 49 with 48 ideal points in a single orbit. **90i:51012**
Pomareda, Rolando *see* **Johnson, Norman Lloyd[1], 90k:51014**
Swiercz, S. *see* **Lam, C. W. H.; et al., 90j:51008**
Thiel, Larry Henry *see* **Lam, C. W. H.; et al., 90j:51008**
Vedder, Klaus *see* **Beutelspacher, A., 90k:51013**

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Arasu, K. T. Abelian projective planes of square order. **90m:05029**
Bhattarai, Hom Nath Pasch geometric spaces inducing finite projective planes. **90c:51002**
Biliotti, Mauro (*with* Jha, Vikram; Johnson, Norman Lloyd[1]; Menichetti, Giampaolo) A structure theory for two-dimensional translation planes of order q^2 that admit collineation groups of order q^2. **90a:51006**
— (*with* Korchmáros, Gábor) Collineation groups preserving a unital of a projective plane of odd order. **90i:20005**
Brualdi, Richard A. (*with* Pless, Vera S.; Wilson, Richard M.) Short codes with a given covering radius. **90g:94016**
Cameron, Peter J. (*with* Mazzocca, Francesco; Meshulam, Roy) Dual blocking sets in projective and affine planes. **90a:51011**
Durgaprasad, K. V. *see* **Narayana Rao, M. L.; et al., 90f:51004**
Evans, Anthony B. Orthomorphism graphs of groups. **90d:51005**
Hayden, John L. Elementary abelian Cartesian groups. **90d:20094**
Jamison, R. E. On the edge achromatic numbers of complete graphs. **90c:05087**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) A characterization of some spreads of order q^3 that admit $\mathrm{GL}(2,q)$ as a collineation group. **90a:51007**
— *see also* **Biliotti, Mauro; et al., 90a:51006**
Johnson, Norman Lloyd[1] On derivable Baer-elation planes. **90g:51005**
— Sequences of derivable translation planes. **90c:51007**
— Nest replaceable translation planes. **90k:51006**
— The derivation of dual translation planes. **90k:51007**
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Korchmáros, Gábor Cyclic one-factorization with an invariant one-factor of the complete graph. **90f:05108**
— *see also* **Biliotti, Mauro, 90i:20005**
Kuppuswamy Rao, K. *see* **Narayana Rao, M. L.; et al., 90f:51004**
Mazzocca, Francesco *see* **Cameron, Peter J.; et al., 90a:51011**
Menichetti, Giampaolo *see* **Biliotti, Mauro; et al., 90a:51006**
Meshulam, Roy *see* **Cameron, Peter J.; et al., 90a:51011**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Durgaprasad, K. V.) A class of d-dimensional flag transitive translation planes. **90f:51004**
Ostrom, T. G. Correction to: "Two-groups on finite translation planes" [Arch. Math. (Base 47 (1986), no. 6, 568–572; MR 87m:20012]. **90k:20006**
Pless, Vera S. *see* **Brualdi, Richard A.; et al., 90g:94016**
Podufalov, N. D. (γ,γ)-transitive finite projective planes. (Russian) **90g:51006**
Schmeichel, E. F. On the cycle structure of finite projective planes. **90g:05056**
Szőnyi, Tamás Arcs and k-sets with large nucleus-set in Hall planes. **90d:51018**
Vasiu, Angela On the semi-isometries of a Galois plane defined over a field $K=\mathrm{GF}(p^2)$. **90g:51020**
Weida, Richard A. An extension of Bruen chains. **90d:51019**
Wilson, Richard M. *see* **Brualdi, Richard A.; et al., 90g:94016**

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Abatangelo, Vito (*with* Larato, Bambina) A characterization of Denniston's maximal arcs **90e:51018**
Assmus, E. F., Jr. (*with* Key, J. D.) Arcs and ovals in the Hermitian and Ree unitals. **90g:51012**
Bader, Laura (*with* Lunardon, Guglielmo) On the flocks of $Q^+(3,q)$. **90e:51019**
Bagchi, Bhaskar (*with* Narasimha Sastry, N. S.) Intersection pattern of the classical ovoi in symplectic 3-space of even order. **90k:51015**
Beutelspacher, A. (*with* Eugeni, Franco) On blocking sets in projective and affine spaces o large order. **90b:51011**
Blokhuis, A. (*with* Brouwer, A. E.; Wilbrink, H. A.) Heden's bound on maximal partial spreads. **90h:51014**
— (*with* Bruen, A. A.) The minimal number of lines intersected by a set of $q+2$ points, blocking sets, and intersecting circles. **90a:51009**
— *see also* **Bruen, A. A.; et al., 90a:51010; 90f:51012** *and* **90f:51013**
Brouwer, A. E. *see* **Blokhuis, A.; et al., 90h:51014**
Brown, Julia M. Nowlin Partitioning the complement of a simplex in $\mathrm{PG}(e,q^{d+1})$ into copies of $\mathrm{PG}(d,q)$. **90e:51020**
Bruen, A. A. (*with* Thas, J. A.; Blokhuis, A.) M.D.S. codes and arcs in projective space. I. **90f:51012**
— (*with* Thas, J. A.; Blokhuis, A.) M.D.S. codes and arcs in projective space. II. **90f:5101**
— (*with* Thas, J. A.; Blokhuis, A.) On M.D.S. codes, arcs in $\mathrm{PG}(n,q)$ with q even, and a solution of three fundamental problems of B. Segre. **90a:51010**
— Kummer configurations and designs embedded in planes. **90g:51013**
— *see also* **Blokhuis, A., 90a:51009**
Cameron, Peter J. (*with* Mazzocca, Francesco; Meshulam, Roy) Dual blocking sets in projective and affine planes. **90a:51011**
Cherowitzo, William E. Ovals in Figueroa planes. **90k:51016**
Ebert, G. L. Spreads admitting regular elliptic covers. **90i:51013**
Eugeni, Franco *see* **Beutelspacher, A., 90b:51011**
Faina, Giorgio Complete caps having less than $(q^2+1)/2$ points in common with an ellip quadric of $\mathrm{PG}(3,q)$, q odd. (Italian summary) **90f:51014**
Glynn, David G. A condition for the existence of ovals in $\mathrm{PG}(2,q)$, q even. **90k:51017**
Hamada, Noboru Characterization of $\{(q+1)+2,1;t,q\}$-min.hypers and $\{2(q+1)+2,2;2,q\}$-min.hypers in a finite projective geometry. **90e:51021**

ohnson, Norman Lloyd[1] Flocks of hyperbolic quadrics and translation planes admitting affine homologies. **90c:51014**
ohnson, Peter Malcolm (*with* Shult, Ernest) Local characterizations of polar spaces. **90e:51022**
ungnickel, Dieter Some self-blocking block designs. **90k:51019**
– Partial spreads over Z_q. **90k:51018**
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arasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 90k:51015**
'Keefe, Christine M. Regularity of 1-spreads of PG$(2s+1,q)$. **90d:51016**
ickert, Günter Differenzmengen und Ovale. (English summary) [Difference sets and ovals] **90j:51011**
rocesi Ciampi, R. (*with* Rota, R.) A k set of type $(0,4,6)$ in PG$(2,8)$. **90d:51017**
ota, R. *see* **Procesi Ciampi, R., 90d:51017**
hult, Ernest *see* **Johnson, Peter Malcolm, 90e:51022**
zőnyi, Tamás Arcs and k-sets with large nucleus-set in Hall planes. **90d:51018**
allini, G. Sets of lines of even type in a Galois space PG$(3,q)$. (Italian. English summary) **90g:51014**
– On blocking sets in finite projective and affine spaces. **90b:51013**
has, J. A. A note on spreads and partial spreads of Hermitian varieties. **90k:51020**
– *see also* **Bruen, A. A.; et al., 90a:51010; 90f:51012** *and* **90f:51013**
ei, Wan Di *see* **Yang, Ben Fu, 90k:51021**
eida, Richard A. An extension of Bruen chains. **90d:51019**
hittle, Geoff q-lifts of tangential k-blocks. **90d:51020**
ilbrink, H. A. *see* **Blokhuis, A.; et al., 90h:51014**
ang, Ben Fu (*with* Wei, Wan Di) Finite unitary geometry and PBIB designs. I. **90k:51021**

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atten, Lynn Margaret Translation triple systems. **90i:51008**
erardi, Luigia A 3-design associated with an n-spread of PG$(2n+1,q)$. (Italian. English summary) **90d:51014**
– Constructing 3-designs from spreads and lines. **90d:05031**
eutelspacher, A. (*with* Jungnickel, Dieter; Vanstone, S. A.) On the chromatic index of a finite projective space. **90m:05032**
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icuonzo, V. (*with* Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) **90k:51022**
üredi, Zoltán A projective plane is an outstanding 2-cover. **90c:05059**
– Covering the complete graph by partitions. **90c:05166**
– *see also* **Boros, Endre; et al., 90g:05004**
erzer, A Generalized Segre varieties. (Italian) **90b:51005**
ohnson, Norman Lloyd[1] On derivable Baer-elation planes. **90g:51005**
– Nest replaceable translation planes. **90k:51006**
– The derivation of dual translation planes. **90k:51007**
– Translation planes admitting Baer groups and partial flocks of quadric sets. **90k:51008**
ungnickel, Dieter On the geometry of affine difference sets of even order. (Arabic summary) **90d:05044**
– *see also* **Beutelspacher, A.; et al., 90m:05032**
ahn, Jeffry N. *see* **Boros, Endre; et al., 90g:05004**
ordecki, Wojciech Strictly balanced submatroids in random subsets of projective geometries. **90c:05053**
ung, Joseph P. S. (*with* Oxley, James G.) Combinatorial geometries representable over GF(3) and GF(q). II. Dowling geometries. **90i:05029**
ord, Eric A. Geometry of the Mathieu groups and Golay codes. **90g:11168**
aurras, Jean-François More on the plane of order 10. (French summary) **90j:51009**
elone, N. (*with* Olanda, D.) $\{1,2\}$-semi-affine planar spaces. (Italian. English summary) **90a:51008**
etsch, Klaus Embedding finite planar spaces into 3-dimensional projective spaces. **90h:51008**
landa, D. *see* **Melone, N., 90a:51008**
xley, James G. *see* **Kung, Joseph P. S., 90i:05029**
asquali Coluzzi, D. *see* **Dicuonzo, V., 90k:51022**
alzberg, Pablo M. Tomography in projective spaces: a heuristic for limited angle reconstructive models. **90f:68173**
anstone, S. A. *see* **Beutelspacher, A.; et al., 90m:05032**
ei, Wan Di *see* **Yang, Ben Fu, 90h:51010**
hittle, Geoff Dowling group geometries and the critical problem. **90g:51008**
ang, Ben Fu (*with* Wei, Wan Di) Orthogonal geometries over finite fields with characteristic $\neq 2$ and block designs. **90h:51010**

1E25 Finite nonlinear geometries

onisoli, Arrigo On resolvable finite Minkowski planes. **90j:51012**
icuonzo, V. (*with* Pasquali Coluzzi, D.) On a class of finite inversive spaces of odd order. I. (Italian summary) **90k:51022**
isher, P. H. (*with* Penttila, Tim; Praeger, Cheryl E.; Royle, Gordon F.) Inversive planes of odd order. **90e:51023**
– Extending generalized quadrangles. **90k:51023**
anssens, G. (*with* Van Maldeghem, H.) Algebraic properties of quadratic quaternary rings. **90d:51021**
Jakóbowski, Jan Conjugate points of a translation plane of order 9 and its extensibility to a Minkowski plane. **90b:51014**
Pasquali Coluzzi, D. *see* **Dicuonzo, V., 90k:51022**
Penttila, Tim *see* **Fisher, P. H.; et al., 90e:51023**
Praeger, Cheryl E. *see* **Fisher, P. H.; et al., 90e:51023**
Rinaldi, Gloria Minkowski semiplanes. **90j:51013**
— Minkowski near-planes. **90j:51014**
Royle, Gordon F. *see* **Fisher, P. H.; et al., 90e:51023**
Shult, Ernest Nonexistence of ovoids in $\Omega^+(10,3)$. **90f:51015**
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Gevaert, Hans Regularity conditions on the transversals of lines in a partial geometry. **90g:51016**
Libicher, Jaroslav Classification of incidence structures with similarity relation. (Czech summary) **90a:51012**
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51Fxx Metric geometry

51F10 Absolute spaces

Ljubić, Dragoslav Bireflectionality in absolute geometry. **90d:51022**

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Coxeter, H. S. M. Trisecting an orthoscheme. **90d:51034**

51F15 Reflection groups, reflection geometries [see also 20H10, 20H15]

Bachmann, Friedrich ★ Ebene Spiegelungsgeometrie. (German) [Plane reflection geometry] **90h:51017**

(Götzky, K. Martin) *see* **Bachmann, Friedrich, 90h:51017**

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51F25 Orthogonal and unitary groups [see also 20H05]

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51G05 Ordered geometries (ordered incidence structures, etc.)

Kalhoff, Franz Über Stellen und Präordnungen von Ternärkörpern. (English summary) [Or places and preorderings of ternary fields] **90a:51014**

— Halbordnungen und Epimorphismen projektiver Ebenen. (English summary) [Semi-orders and epimorphisms of projective planes] **90d:51028**

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51Hxx Topological geometry

51H10 Topological linear incidence structures

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51H20 Topological geometries on manifolds [see also 57–XX]

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51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

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51H30 Geometries with algebraic manifold structure [see also 14–XX]

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51Jxx Incidence groups

51J10 Projective incidence groups

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51J15 Kinematic spaces

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— Affine double spaces of order 3. **90c:51016**

51J20 Representation by near-fields and near-algebras [see also 12K05, 16A76]

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51Kxx Distance geometry

51K05 General theory

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51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

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51Mxx Real and complex geometry

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51M05 Euclidean geometries

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Sándor, József ★ Geometriai egyenlőtlenségek. (Hungarian) [Geometric inequalities] **90g:51002**

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Wilker, J. B. The product of three inversions. **90k:51034**

51M10 Hyperbolic and elliptic geometries

Bieliński, Andrzej The structure of descriptive geometry of the four-dimensional Lobachevski space. **90g:51024**

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— *see also* **Prażmowska, Małgorzata, 90b:51009**
Rosenfeld, B. A. (*with* Zamakhovskiĭ, M. P.; Timoshenko, T. A.) Parabolic spaces. (Russian) **90c:22050**
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Sleator, Daniel D. (*with* Tarjan, Robert E.; Thurston, W. P.) Rotation distance, triangulations, and hyperbolic geometry. **90h:68026**
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Tarjan, Robert E. *see* **Sleator, Daniel D.; et al., 90h:68026**
Thurston, W. P. *see* **Sleator, Daniel D.; et al., 90h:68026**
Timoshenko, T. A. *see* **Rosenfeld, B. A.; et al., 90c:22050**
Zamakhovskiĭ, M. P. *see* **Rosenfeld, B. A.; et al., 90c:22050**

51M15 Geometric constructions

Boltyanskiĭ, V. G. Rotation and central symmetry. (Russian) **90m:51005**
Boruń, Stanisław Construction of a circle that is affine to an ellipse defined by its axes. (Polish. English and Russian summaries) **90a:51017**
Coughlin, Mary The shape of *e*. **90c:51022**
Eckert, Ernest J. (*with* Vestergaard, Preben Dahl) Groups of integral triangles. **90i:51019**
Eddy, R. H. A generalization of Nagel's middlespoint. **90k:51035**
Fichtl, X. Comment on: "A theorem on orientation-reversing-similar triangles" [Praxis Math. **29** (1987), no. 2, 115–117; MR 88b:51033] by E. M. Schröder. (German) **90i:51020**
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Górska, Renata On a construction of conics. (Polish. English and Russian summaries) **90d:51031**
Grölz, Wolfgang Zur algebraischen Kennzeichnung geometrischer Konstruktionen—Ein elementarer Zugang. [On the algebraic characterization of geometric constructions—an elementary approach] **90j:51019**
Hunter, Aleck J. (*with* Kovarik, M.) Integral triangles and circles. **90f:51025**
Jonak, Marcin On circles that are superosculating to conics. (Polish. English and Russian summaries) **90d:51032**
Kovárik, M. *see* **Hunter, Aleck J., 90f:51025**
Lu, Song Xi A geometric method for graphing the product of two functions: the parabola method. (Chinese) **90j:51020**
Raczyński, Tadeusz Constructions fondamentales dans l'application gauche rotativement. (Polish summary) [Fundamental constructions in the rotationally skew mapping] **90j:51021**
— Principe d'application des éléments non spécifiques et le problème du parallélisme dans l'application rotativement gauche. (Polish summary) [The nonspecific element mapping principle and the problem of parallelism in the rotationally skew mapping] **90j:51022**
(Schröder, Eberhard) *see* **Fichtl, X., 90i:51020**
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Coxeter, H. S. M. Trisecting an orthoscheme. **90d:51034**
Dimantov, E. A. Modeling an involutive projectivity of the complex line. (Russian) **90i:51028**
Fleurent, G. M. Symmetry and polyhedral stellation. Ia. **90g:51028**
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Hsü, Chên Jung On Simson lines in the sense of Langley. **90d:51029**
Jonak, Marcin *see* **Boruń, Stanisław, 90a:51020**
Linder, K. *see* **Zsombor-Murray, P. J., (90d:51003)**
Lorimer, Peter Towards a 3-dimensional model of the 120-cell. **90e:51027**
Messer, P. W. (*with* Wenninger, M. J.) Symmetry and polyhedral stellation. II. **90g:51030**
Overdijk, Douwe ★ De driedimensionale constructie van Reuleaux. (Dutch) [Reuleaux's three-dimensional constructions] **90b:53001**
Riede, Harald Reflexion am Kugelspiegel. Oder: das Problem des Alhazen. [Reflection in a spherical mirror. Or: the problem of ibn al-Haytham] **90g:51048**
Stakhov, A. P. The golden section in the measurement theory. **90d:11027**
Verheyen, H. F. The complete set of jitterbug transformers and the analysis of their motion. **90d:51036**
Vogt, Otmar On a family of spheres that are tangent to three given spheres. (Polish. English and Russian summaries) **90b:51022**
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51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Björner, Anders (*with* Edelman, Paul H.; Ziegler, Günter M.) Hyperplane arrangements with a lattice of regions. **90k:51036**
Bloomenthal, Jules Natural shapes and implicit models. (*see* **90d:51002**)
Burdina, V. I. Coordination polyhedra of dual subdivisions of a three-dimensional sphere o rotations for the group 3 × 23. **90i:51021**
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David, Guy René (*with* Tomei, C.) The problem of the calissons. **90c:51024**
Dimovski, Ivan Hristov Generalization of a problem of Academician L. Chakalov. (Bulgarian. English summary) **90f:51026**
Edelman, Paul H. *see* **Björner, Anders; et al., 90k:51036**
Fleurent, G. M. Symmetry and polyhedral stellation. Ia. **90g:51028**
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Hacon, Derek (*with* Tomei, C.) Tetrahedral decompositions of hexahedral meshes. **90i:51022**
Léger, Christian (*with* Terrasson, Jean-Claude) Les cinq métamorphoses des surfaces pavées. (English summary) [The five metamorphoses of tessellated surfaces] **90a:51018**
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Pedersen, Flemming Damhus Douglas pentagons in Fabricius-Bjerre's version. (Danish. English summary) **90b:51025**
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Verheyen, H. F. The complete set of jitterbug transformers and the analysis of their motion **90d:51036**
Wagon, Stan *see* **Gardner, Richard J., 90j:51023**
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Hecker, Hans-Dietrich (*with* Herwig, Dietmar) Zur schnellen Zerlegung von Polygonen in sternförmige Polygone. [On fast decomposition of polygons into star-shaped polygons] **90c:68078**
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51M25 Length, area and volume [see also 26B15]

Abi-Khuzam, Faruk F. (*with* Boghossian, Artin B.) Some recent geometric inequalities. **90h:51022**
Bockman, S. F. Generalizing the formula for areas of polygons to moments. **90c:51026**
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Carroll, C. E. (*with* Klamkin, M. S.) Inequalities for convex cyclic polygons. **90g:51033**
Deignan, J. *see* **Pennell, S., 90d:51037**
Dorninger, Dietmar (*with* Hasibeder, Günther) Polygons of shortest perimeter reconstructing chromosomal order. **90k:51037**
Hasibeder, Günther *see* **Dorninger, Dietmar, 90k:51037**
Hsiang, Wu-Yi On infinitesimal symmetrization and volume formula for spherical or hyperbolic tetrahedrons. **90b:51026**
Janous, Walter *see* **Mitrinović, Dragoslav S.; et al., 90c:51027**
Jaritz, Renate Über einen abstrakten Jordaninhalt für Zerlegungsstrukturen. (English summary) [On an abstract Jordan content for decomposition structures] **90f:51027**

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hou, Jian Nong *see* **Liu, Li, 90m:51006**

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hmed, S. I. *see* **Al-Rashed, Abdallah M., 90m:11112**

l-Rashed, Abdallah M. (*with* Ahmed, S. I.) A generalization of the number π. **90m:11112**

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1M30 Line geometries and their generalizations

oźniewski, Edwin An axiom system for the line geometry. **90e:51030**

ankosz, Adam (*with* Loskiewicz, Genowefa; Rachwał, Tadeusz) Some properties of conic pencils. (Polish. English summary) **90g:51036**

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Iassanien, S. F. *see* **Soliman, M. A., 90a:53019**

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1M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

ogunov, I. S. Projective invariants of plane curves of third order. (Russian) (*see* **90m:00019**)

1M99 None of the above, but in this section

ewandowski, Andrzej (*with* Makowiecka, Hanna; Uscki, Mirosław) On common properties of Euclidean, Galilean and Minkowskian circles. **90f:51029**

- (*with* Makowiecka, Hanna; Uscki, Mirosław) On Euclidean-like inversion and its applications. **90f:51030**

Iakowiecka, Hanna *see* **Lewandowski, Andrzej; et al., 90f:51029** *and* **90f:51030**

guyễn Canh Toàn (*with* Nguyễn Đăng Phát) Les espaces ultranoneuclidiens. [Ultra-non-Euclidean spaces] **90g:51037**

Nguyễn Đăng Phát *see* **Nguyễn Canh Toàn, 90g:51037**

Ruoff, Dieter Eine kleine n-Ecks-Lehre. [A small catechism concerning n-gons] **90a:51019**

Uscki, Mirosław *see* **Lewandowski, Andrzej; et al., 90f:51029** *and* **90f:51030**

Whiteley, Walter Rigidity and polarity. II. Weaving lines and tensegrity frameworks. **90m:51007**

Yamaleev, R. M. ★ О геометрических образах в трехмерном пространстве с кубической метрикой. (Russian) [Geometric forms in a three-dimensional space with cubic metric] **90g:51038**

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Bihlmayer, W. (*with* Forst, Wilhelm) Approximation by circles. **90i:90086**

Fishburn, Peter C. Circle orders and angle orders. **90j:06003**

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Makai, Endre, Jr. *see* **Tarnai, T., 90m:52010**

Milošević, D. M. Some inequalities for the triangle. (Serbo-Croatian summary) **90i:26029**

Santoro, Nicola (*with* Sidney, J. B.; Sidney, S. J.; Urrutia, Jorge) Geometric containment and partial orders. **90e:06010**

Schwarz, Binyamin (*with* Zaks, Abraham) On geometries of the projective matrix space. **90k:20083**

Sidney, J. B. *see* **Santoro, Nicola; et al., 90e:06010**

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Zamorzaev, A. M. *see* **Garit, V. P., 90c:20006**

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry

Boruń, Stanisław (*with* Jonak, Marcin) Construction of a subset of conics of revolution passing through a given conic curve. (Polish. English and Russian summaries) **90a:51020**

Crapo, Henry Graphics programming in PostScript. (*see* **90d:51002**)

Czech, Ludmiła Example of a closed projection base system. (*see* **90d:51002**)

Dovniković, Lazar Descriptive geometrical methods of space restitutions of algebraic plane curves. (*see* **90d:51002**)

Drahos, I. The two-view drawing in the epoch of computational geometry. (*see* **90d:51002**)

Fucke, Rudolf (*with* Kirch, Konrad; Nickel, Heinz) ★ Darstellende Geometrie. (German) [Descriptive geometry] **90f:51031**

Fuhs, Wilhelm (*with* Stachel, Hellmuth) Applied descriptive geometry problems. **90j:51025**

Giering, Oswald (*with* Seybold, Hans) ★ Konstruktive Ingenieurgeometrie. (German) [Constructive geometry for engineers] **90m:51008**

Goss, Larry D. Graphic representation of three-dimensional wire frame primitives in computer-aided design. (*see* **90d:51002**)

Grochowski, Bogusław Convergence scales for the sun point projections with double converging scale. **90b:51027**

Hanna, Wagih N. Central perspective of the four-dimensional space. **90i:51025**

Hartmann, Erich ★ Computerunterstützte Darstellende Geometrie. (German) [Computer-aided descriptive geometry] **90i:51026**

Held, Martin Computational geometry for pocket machining. (*see* **90d:51002**)

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Moustafa, Moustafa R. Descriptive geometry, reference line nomenclature implications: traditional vs. new approach. (*see* **90d:51003**)

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Odaka, Naoki A fundamental theorem for perspective projection and its application. **90g:51040**

Peklich, V. A. The descriptive geometry of a six-dimensional affine space. (Russian) **90h:51025**

Pengilley, C. J. *see* **Thomas, V. O., (90d:51003)**

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Richard, Roy (*with* VanBork, Eric) Descriptive solid geometry (DSG), a new approach to solids modeling on computers. (*see* **90d:51003**)

Rotenberg, Abram Mongean, affine and projective models of three- (or four-) dimensional spaces. (*see* **90d:51003**)

Sato, Jinichiro Arrangement characteristic of perspective using computer. (*see* **90d:51003**)

Seiner, Yan (*with* Slaby, Steve M.) 4D-Ed, a four-dimensional computer aided design system. (*see* **90d:51003**)

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Ying, Dao Ning (*with* Zhou, Ming Wei) SMSZU—a solid modeler with a TST processor. **90e:51031**
Zdziarski, Andrzej Central-reflexive mapping of elements of a space onto an anaformical projection plane. (Polish. English and Russian summaries) **90c:51028**
Zhou, Ming Wei *see* **Ying, Dao Ning, 90e:51031**
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Zsombor-Murray, P. J. (*with* Linder, K.) A descriptive geometric approach to circle constructions. (*see* **90d:51003**)

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Charit, Yehuda The geometrical base of three-dimensional realignment of deformed bones through an oblique osteotomy. (*see* **90d:51002**)
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Karger, Adolf Application of descriptive geometry in the geometry of robot motion. (*see* **90d:51002**)
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Vasiu, Angela (*with* Vlaic, Iuliu) About graphics representation of the surfaces given by parametric equations. (*see* **90d:53002**)
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  Engineering Graphics and Descriptive Geometry ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. **90d:51002**
  — ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. **90d:51003**
  Geometric Modeling and Descriptive Geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] **90d:51001**
Geometric modeling and descriptive geometry ★ Геометрическое моделирование и начертательная геометрия. (Russian) [Geometric modeling and descriptive geometry] **90d:51001**
Proceedings:
  Conference on Engineering Graphics and Descriptive Geometry ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. **90d:51002**
  — ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. **90d:51003**
Vienna ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 1. **90d:51002**
— ★ Proceedings of the Third International Conference on Engineering Graphics and Descriptive Geometry. Vol. 2. **90d:51003**

51N10 Affine analytic geometry

Gindikin, S. G. Use of coordinates and the art of coupling a hyperboloid. (Russian) **90b:51028**
Hsü, Chên Jung On affine generalizations of a few theorems in elementary geometry. **90a:51021**
Schaal, Hermann Die affin invarianten rechten Winkel. [Affine invariant right angles] **90i:51027**
Teodorescu, I. D. On (p, q)-cylinders in a Euclidean space. (Romanian) **90e:51032a**
— On (p, q)-cones in a Euclidean space. (Romanian) **90e:51032b**
Wang, Jin Min Central projection of the affine coordinate system. (Chinese. English summary) **90g:51042**
Yang, Gan Xin The Monge method applied to determination of angles in the four-dimensional Euclidean space. **90g:51043**

Items with secondary classifications in 51N10

Boruń, Stanisław Construction of a circle that is affine to an ellipse defined by its axes. (Polish. English and Russian summaries) **90a:51017**

51N15 Projective analytic geometry

Buchcic, Stanisław The Poncelet configuration of closing for normal curves. **90g:51044**
Dimantov, E. A. Modeling an involutive projectivity of the complex line. (Russian) **90i:51028**
Liu, De Yuan An improvement in the proof of a theorem in one-dimensional projective geometry. (Chinese. English summary) **90d:51038**
Łoskiewicz, Genowefa Certaine transformation non linéaire de l'espace projectif tridimensionnel dans un plan. (Polish summary) [A certain nonlinear transformation of three-dimensional projective space into the plane] **90g:51045**
Mandan, Sahib Ram Hesse's theorem in n-space. **90a:51022**
— (*with* Sanyal, Arun) An extension of Hesse's theorem in an n-space P_n. **90a:51023**
Misra, Saroj Kanta *see* **Sanyal, Arun, 90k:51040**
Ogata, Takehide On the relationship between the axes and the polars of triangles. (Japanese. English summary) **90a:51024**
Sanyal, Arun (*with* Misra, Saroj Kanta) Veronesian pair and associated desmic system. **90k:51040**
— *see also* **Mandan, Sahib Ram, 90a:51023**
Witczyński, Krzysztof Sur les générateurs du groupe des transformations projectives du plan projectif. [On the generators of the projective transformation group of the project plane] **90c:51029**
Ye, Tian Shun On some methods for computing cross ratios. (Chinese) **90j:51027**

Items with secondary classifications in 51N15

Geise, Gerhard Projektion des Schnitts zweier Quadriken. [Projection of the intersection two quadrics] **90b:14065**
Voloshinov, V. A. A study of a two-dimensional model of the space R^7. (Russian) **90h:51026**
Yang, Hui Lan Research on perspective in 3-dimensional space. (Chinese. English summary) **90j:51026**

51N20 Euclidean analytic geometry

Cardoso, Jayme Machado Equations of some cissoids. (Portuguese) **90b:51029**
Chen, Jian A theorem on parallel projection. (Chinese. English summary) **90f:51034**
Dimitrov, L. *see* **Firneis, F.; et al., 90i:51029**
Dyduch, Tadeusz Coaxial centrally collinear transformations in $\{E^3\}$. (Polish. English an Russian summaries) **90d:51039**
Firneis, F. (*with* Firneis, M.; Dimitrov, L.; Frank, G.; Thaller, R.) On some applications quaternions in geometry. **90i:51029**
Firneis, M. *see* **Firneis, F.; et al., 90i:51029**
Frank, G. *see* **Firneis, F.; et al., 90i:51029**
Glavas, C. B. ★ The geometrical equivalence as an independent method with illustrations **90g:51046**
Górska, Renata (*with* Jonak, Marcin) Some problems of conics theory. (Polish summary **90g:51047**
Huang, Wei Yu A criterion for the affine classification of second-order curves. (Chinese) **90d:51040**
Jonak, Marcin *see* **Górska, Renata, 90g:51047**
Kimberling, Clark Fibonacci hyperbolas. **90j:51028**
Kirsch, Arnold Anschauliche Begründung einiger Verfahren der numerischen Mathemati aus der Geometrie der Parabel. [Visualized justification of some methods of numerical mathematics from the geometry of the parabola] **90a:51025**
Li, Gui Lan (*with* Song, Ping) Perspective transformation of conic sections. (Chinese. English summary) **90f:51035**
Lima, Åsvald Steiner's porism. (Norwegian. English summary) **90d:51041**
Lu, Jian Ke A general method for finding the pseudocenter of a point set. (Chinese) **90a:51026**
Nitsche, Johannes C. C. Isoptic characterization of a circle (proof of a conjecture of M. S Klamkin). **90j:51029**
Riede, Harald Reflexion am Kugelspiegel. Oder: das Problem des Alhazen. [Reflection in spherical mirror. Or: the problem of ibn al-Haytham] **90g:51048**
Sander, Hans-Joachim Die Berechnung der kürzesten Entfernung zweier Punkte auf der Erdoberfläche. Ein heuristischer Zugang zum Seitenkosinussatz. [Computing the short distance between two points on the earth's surface. A heuristic approach to the cosine l for sides] **90j:51030**
Siemon, H. Noch eine Bemerkung zum Schmetterlingssatz. [Yet another comment on the butterfly theorem] **90g:51049**
Sinchenko, L. D. Problems in the geometry of torus surfaces. (Russian) **90f:51036**
— Geometrical modelling of new tore and torelike forms. (*see* **90d:51003**)
Slav, L. I. A geometric interpretation of coordinate transposition. (Russian) **90g:51050**
Song, Ping *see* **Li, Gui Lan, 90f:51035**
Stachel, Hellmuth Einige metrische Kegelschnittseigenschaften. [Some properties of met conics] **90i:51030**
(Steiner, Jacob) *see* **Lima, Åsvald, 90d:51041**
Takeyama, Kazuhiko A new interpretation of the oblique projection from the viewpoint coordinate transformations. (*see* **90d:51003**)
Thaller, R. *see* **Firneis, F.; et al., 90i:51029**
Vijayakumar, Ambat On an analogue of ellipses in the discrete holometric space. **90m:51009**
Walser, Hans Ein Schließungssatz der Elementargeometrie. [A closure theorem of elementary geometry] **90a:51027a**
— *see also* **Wyss, R., 90a:51027b**
Weiss, Gunter *see* **Wyss, R., 90a:51027b**
Wyss, R. (*with* Weiss, Gunter) Comments on: "A closure theorem of elementary geomet [Elem. Math. **43** (1988), no. 6, 161–169; MR 90a:51027a] by Hans Walser. (German) **90a:51027b**

Items with secondary classifications in 51N20

Deignan, J. *see* **Pennell, S., 90d:51037**
Deng, Mi Ke The parallel numerical method of proving the constructive geometric theor **90m:03023**
Lang, Johann (*with* Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] **90g:51051**
Lasser, Dieter Self-intersections of parametric surfaces. **90h:65018**
Pablo, Rubio Cubic lines relative to a triangle. **90c:51021**
Pennell, S. (*with* Deignan, J.) Computing the projected area of a cone. **90d:51037**
Röschel, Otto *see* **Lang, Johann, 90g:51051**
Schupp, Hans ★ Kegelschnitte. (German) [Conic sections] **90b:51002**
Siemon, H. Bemerkung zum Ecken- und Flächenschwerpunkt von Vierecken. [Commen the center of gravity of the vertices and the centroid of quadrangles] **90g:51035**
Takeuchi, Nobuko A sphere as a surface which contains many circles. II. **90b:53002**

1N25 Analytic geometry with other transformation groups

ng, Johann (*with* Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] **90g:51051**
ïschel, Otto Torusflächen des galileischen Raumes G_3. [Torus surfaces of the Galilei space G_3] **90b:51030**
see also **Lang, Johann, 90g:51051**
chs, Hans Oskulierende und hyperoskulierende Kegelschnittbüschel der isotropen Ebene. I. [Osculating and hyperosculating pencils of conics of the isotropic plane. I] **90c:51030**
ng, Hong E An elementary study of the properties of rational circle curves. (Chinese. English summary) **90c:51031**

ems with secondary classifications in 51N25

uang, Wei Yu A criterion for the affine classification of second-order curves. (Chinese) **90d:51040**
usty, Manfred Zweiparametrige äquiforme Bewegungen der isotropen Ebene. [Two-parameter equiform motions in the isotropic plane] **90g:53015**
ng, Johann Planetenbewegungen des Flaggenraumes. (English summary) [Planetary motions of the flag space] **90b:51031**

1N30 Geometry of classical groups [see also 20Gxx, 14Lxx]

eng, Wei Chuan *see* **Yin, Jing Yao, 90i:51031**
ang, Johann Planetenbewegungen des Flaggenraumes. (English summary) [Planetary motions of the flag space] **90b:51031**
in, Jing Yao (*with* Feng, Wei Chuan) An inequality for sines of higher-dimensional angles and its application. (Chinese) **90i:51031**

ems with secondary classifications in 51N30

ang, Johann (*with* Röschel, Otto) Eine äquiforme Eigenschaft der Mittelpunktskegelschnitte. [An equiform property of central conic sections] **90g:51051**
adó, F. On the semi-isometries of metric vector spaces. **90d:51024**
öschel, Otto *see* **Lang, Johann, 90g:51051**

1N35 Questions of classical algebraic geometry [see also 14Nxx]

egoli, Lando Sur l'utilisation des déter-cubes dans les systèmes linéaires des quadriques. [On using detercubes in linear systems of quadrics] **90j:51031b**
Sur les déter-cubes et leurs applications aux systèmes linéaires de quadriques. (English summary) [Detercubes and their applications to linear systems of quadrics] **90j:51031a**
artl, J. Externe punkte bei quadriken. [External points in quadrics] **90k:51041**
oźniewski, Edwin A pencil of unicoursal, plane, *n*th order curves as a pencil of perspective rays. **90d:51042**
huker, N. H. Conics related by triangles. (Arabic summary) **90d:51043**

ems with secondary classifications in 51N35

egoli, Lando Un nouveau théorème sur la variété de Veronese. (Russian and Slovak summaries) [A new theorem on Veronese varieties] **90b:14064**
neva, Gergana V. A Cremona correspondence between three-dimensional planes in a five-dimensional complex projective space. (Russian. English summary) **90g:14007**
ayashi, Eiichi A REDUCE application program. **90e:51002**
rivoruchko, G. V. *see* **Rosenfeld, B. A.; et al., 90b:53012**
ankosz, Adam (*with* Łoskiewicz, Genowefa; Rachwał, Tadeusz) Some properties of conic pencils. (Polish. English summary) **90g:51036**
oskiewicz, Genowefa *see* **Lankosz, Adam; et al., 90g:51036**
etrov, L. K. Linear inversion with respect to the cubic norm-surface V_2^3 in $\mathbf{P}_4$. (Bulgarian. English and Russian summaries) **90h:14020**
iccolella, Lia Fioravanti More on a differential characterization of Veronese manifolds. **90c:53032**
achwał, Tadeusz *see* **Lankosz, Adam; et al., 90g:51036**
osenfeld, B. A. (*with* Krivoruchko, G. V.; Shul′ga, N. V.; Yukhtina, T. I.) Metric and symplectic Segreans and quasi-Segreans. **90b:53012**
hul′ga, N. V. *see* **Rosenfeld, B. A.; et al., 90b:53012**
einberg, David A. The affine classification of cubic curves. **90b:14068**
The topological classification of cubic curves. **90b:14069**
ukhtina, T. I. *see* **Rosenfeld, B. A.; et al., 90b:53012**

1N99 None of the above, but in this section

an, Pi Hsin On independent affine sets. (Chinese summary) **90d:51044**

ems with secondary classifications in 51N99

ysin, Liliana Mabel Über die Realisierbarkeit gegebener Verteilungstypen durch Streckennetze. [On the realizability of given distribution types by nets of curves] **90g:52008**
ewandowski, Andrzej (*with* Makowiecka, Hanna; Uscki, Mirosław) On common properties of Euclidean, Galilean and Minkowskian circles. **90f:51029**
(*with* Makowiecka, Hanna; Uscki, Mirosław) On Euclidean-like inversion and its applications. **90f:51030**
akowiecka, Hanna *see* **Lewandowski, Andrzej; et al., 90f:51029** *and* **90f:51030**
scki, Mirosław *see* **Lewandowski, Andrzej; et al., 90f:51029** *and* **90f:51030**
amaleev, R. M. ★ О геометрических образах в трехмерном пространстве с кубической метрикой. (Russian) [Geometric forms in a three-dimensional space with cubic metric] **90g:51038**

52–XX Convex sets and related geometric topics

52–01 Elementary exposition; textbooks

Items with secondary classifications in 52–01

Walk, Manfred ★ Theory of duality in mathematical programming. **90g:90124**

52–02 Advanced exposition (research surveys, monographs, etc.)

Bokowski, Jürgen (*with* Sturmfels, Bernd) ★ Computational synthetic geometry. **90i:52001**
Sturmfels, Bernd *see* **Bokowski, Jürgen, 90i:52001**

Items with secondary classifications in 52–02

Chatterji, B. N. *see* **Das, P. P., 90k:52015**
Das, P. P. (*with* Chatterji, B. N.) Hyperspheres in digital geometry. **90k:52015**
Fomenko, A. T. Visual and hidden symmetry in geometry. **90e:92100**

52–03 Historical (must also be assigned at least one classification number from Section 01)

Pfiefer, Richard E. The historical development of J. J. Sylvester's four point problem. **90m:52001**

52–04 Explicit machine computation and programs (not the theory of computation or programming)

Bajaj, Chanderjit (*with* Kim, Myung Soo) Generation of configuration space obstacles: the case of moving algebraic curves. **90d:52001**
Chazelle, Bernard (*with* Guibas, Leonidas) Visibility and intersection problems in plane geometry. **90f:52001**
Edelsbrunner, Herbert (*with* Guibas, Leonidas; Sharir, Micha) The upper envelope of piecewise linear functions: algorithms and applications. **90f:52003**
— The upper envelope of piecewise linear functions: tight bounds on the number of faces. **90f:52004**
Guibas, Leonidas *see* **Chazelle, Bernard, 90f:52001** *and* **Edelsbrunner, Herbert; et al., 90f:52003**
Kim, Myung Soo *see* **Bajaj, Chanderjit, 90d:52001**
Nagano, Saburo *see* **Nagashima, Shinobu; et al., 90i:52002**
Nagashima, Shinobu (*with* Suzuki, Kenjiro; Nagano, Saburo) Inclusion tests for polygons and polyhedra. **90i:52002**
Pach, János (*with* Sharir, Micha) The upper envelope of piecewise linear functions and the boundary of a region enclosed by convex plates: combinatorial analysis. **90f:52002**
Sharir, Micha *see* **Pach, János, 90f:52002** *and* **Edelsbrunner, Herbert; et al., 90f:52003**
Suzuki, Kenjiro *see* **Nagashima, Shinobu; et al., 90i:52002**

Items with secondary classifications in 52–04

Abdollahi, M. *see* **Pham, Duc Truong, 90h:68105**
Abramowski, Stephan (*with* Lang, Bruno; Müller, Heinrich) Moving regular *k*-gons in contact. (*see* **90h:68091**)
Aggarwal, Alok (*with* Guibas, Leonidas; Saxe, James; Shor, Peter) A linear-time algorithm for computing the Voronoĭ diagram of a convex polygon. **90g:68134**
Ahlfeld, Uwe (*with* Hecker, Hans-Dietrich) Algorithmen zur unimodalitätsbestimmung einfacher polygone. [Algorithms for computing the unimodality of simple polygons] (Not in MR)
Akgül, Mustafa An algorithmic proof of the polyhedral decomposition theorem. **90g:90100**
Akimov, A. P. *see* **Akimova, I. Ya., 90k:68164**
Akimova, I. Ya. (*with* Akimov, A. P.) Weighted Voronoĭ partitions. **90k:68164**
Aronov, Boris On the geodesic Voronoĭ diagram of point sites in a simple polygon. **90c:68074**
Atallah, Mikhail J. (*with* Goodrich, Michael T.) Parallel algorithms for some functions of two convex polygons. **90b:68095**
Bhattacharya, Binay K. Circular separability of planar point sets. **90b:68097**
— (*with* Zorbas, J.) Solving the two-dimensional findpath problem using a line-triangle representation of the robot. **90i:68084**
Chen, Chern Lin Computing the convex hull of a simple polygon. **90k:68165**
Chen, Nian Yi *see* **Tang, Zheng Quan; et al.**, (Not in MR)
Dijkstra, Edsger W. A computing scientist's approach to a once-deep theorem of Sylvester's. **90m:52009**
Đỗ Bá Khang (*with* Fujiwara, Okitsugu) A new algorithm to find all vertices of a polytope. **90j:90081**
Dobkin, David P. (*with* Souvaine, Diane L.; Van Wyk, Christopher J.) Decomposition and intersection of simple splinegons. **90f:68167**
Drysdale, Robert L., III (*with* Jaromczyk, Jerzy W.) A note on lower bounds for the maximum area and maximum perimeter *k*-gon problems. **90j:68047**
Dyer, M. E. (*with* Frieze, A. M.) On the complexity of computing the volume of a polyhedron. **90f:68077**
El-Gindy, Hossam A. Comments on: the computation of the convex hull of a simple polygon in linear time. (Russian summary) **90h:68101**
— (*with* Toussaint, Godfried T.) Computing the relative neighbour decomposition of a simple polygon. **90b:68098**
Feinberg, Ellen B. (*with* Papadimitriou, Christos H.) Finding feasible paths for a two-point body. **90b:68099**
Franzblau, D. S. Performance guarantees on a sweep-line heuristic for covering rectilinear polygons with rectangles. **90f:05040**
Frieze, A. M. *see* **Dyer, M. E., 90f:68077**
Fujiwara, Okitsugu *see* **Đỗ Bá Khang, 90j:90081**
Goodrich, Michael T. *see* **Atallah, Mikhail J., 90b:68095**
Guibas, Leonidas *see* **Aggarwal, Alok; et al., 90g:68134**

Hecker, Hans-Dietrich (*with* Herwig, Dietmar) NP-harte Probleme für minimale Polygonüberdeckungen. [NP-hard problems for minimal polygon coverings] **90i:68085**
— *see also* **Ahlfeld, Uwe**, (Not in MR)
Herwig, Dietmar *see* **Hecker, Hans-Dietrich, 90i:68085**
Heusinger, H. (*with* Noltemeier, H.) On separable and rectangular clusterings. (*see* **90h:68006**)
Holmes, Peter D. (*with* Jungert, Erland) Shortest paths in a digitized map using a tile-based data structure. **90k:68168**
Jaromczyk, Jerzy W. *see* **Drysdale, Robert L., III, 90j:68047**
Jungert, Erland *see* **Holmes, Peter D., 90k:68168**
Kao, Thomas Chiungtung (*with* Knott, Gary D.) An efficient and numerically correct algorithm for the 2D convex hull problem. (Not in MR)
Karasik, E. B. Formalization of heuristic tactics used by human beings in searching for the closest packing of arbitrary objects in a given domain. **90g:68138**
Klimov, V. E. (*with* Klishin, V. V.) Solution of the problem of synthesizing the geometry of three-dimensional objects in the class of polyhedrons. **90e:68095**
Klishin, V. V. *see* **Klimov, V. E., 90e:68095**
Knott, Gary D. *see* **Kao, Thomas Chiungtung**, (Not in MR)
Kong, T. Y. (*with* Mount, D. M.; Roscoe, A. W.) The decomposition of a rectangle into rectangles of minimal perimeter. **90b:68101**
Lang, Bruno *see* **Abramowski, Stephan; et al.**, (**90h:68091**)
Lingas, Andrzej Voronoï diagrams with barriers and the shortest diagonal problem. **90k:68169**
Mansouri, Minou (*with* Toussaint, Godfried T.) On the reachability region of a ladder in two convex polygons. **90h:68102**
Matoušek, Jiří Line arrangements and range search. **90i:68087**
Meiser, Stefan Point location in arrangements (extended abstract). (*see* **90h:68006**)
Milgram, M. S. Does a point lie inside a polygon? **90g:68139**
Mount, D. M. *see* **Kong, T. Y.; et al., 90b:68101**
Müller, Heinrich *see* **Abramowski, Stephan; et al.**, (**90h:68091**)
Naylor, Bruce F. *see* **Thibault, William C., 90a:68082**
Noltemeier, H. *see* **Heusinger, H**, (**90h:68006**)
Nurmi, Otto (*with* Sack, Jörg-R.) Separating a polyhedron by one translation from a set of obstacles (extended abstract). (*see* **90h:68091**)
Overmars, Mark H. (*with* Wood, Derick) On rectangular visibility. **90b:68104**
— Computational geometry and its application to computer graphics. **90k:68171**
Papadimitriou, Christos H. (*with* Silverberg, Ellen B.) Optimal piecewise linear motion of an object among obstacles. **90g:68068**
— *see also* **Feinberg, Ellen B., 90b:68099**
Pham, Duc Truong (*with* Abdollahi, M.) Image compression using polylines. **90h:68105**
Pollack, Richard (*with* Sharir, Micha; Rote, Günter) Computing the geodesic center of a simple polygon. **90g:68141**
Preparata, Franco P. (*with* Tamassia, Roberto) Fully dynamic point location in a monotone subdivision. **90k:68172**
Rawlins, Gregory J. E. (*with* Wood, Derick) Computational geometry with restricted orientations. **90b:68105**
Roscoe, A. W. *see* **Kong, T. Y.; et al., 90b:68101**
Rote, Günter *see* **Pollack, Richard; et al., 90g:68141**
Sack, Jörg-R. (*with* Toussaint, Godfried T.) Guard placement in rectilinear polygons. **90b:68106**
— *see also* **Nurmi, Otto**, (**90h:68091**)
Saxe, James *see* **Aggarwal, Alok; et al., 90g:68134**
Shao, Jun^2 *see* **Tang, Zheng Quan; et al.**, (Not in MR)
Sharir, Micha *see* **Pollack, Richard; et al., 90g:68141**
Shor, Peter *see* **Aggarwal, Alok; et al., 90g:68134**
Silverberg, Ellen B. *see* **Papadimitriou, Christos H., 90g:68068**
Souvaine, Diane L. *see* **Dobkin, David P.; et al., 90f:68167**
Sugihara, Kōkichi Realizability of polyhedrons from line drawings. **90b:68107**
Tamassia, Roberto *see* **Preparata, Franco P., 90k:68172**
Tang, Zheng Quan (*with* Shao, Jun^2; Chen, Nian Yi) A method for constructing and computing the Voronoï polyhedron and its implementation. (Chinese. English summary) (Not in MR)
Tarjan, Robert E. (*with* Van Wyk, Christopher J.) An $O(n \log\log n)$-time algorithm for triangulating a simple polygon. **90b:68108a**
— (*with* Van Wyk, Christopher J.) Erratum: “An $O(n \log\log n)$-time algorithm for triangulating a simple polygon”. **90b:68108b**
Thibault, William C. (*with* Naylor, Bruce F.) Set operations on polyhedra using binary space partitioning trees. **90a:68082**
Toussaint, Godfried T. On separating two simple polygons by a single translation. **90g:68143**
— *see also* **El-Gindy, Hossam A., 90b:68098; Sack, Jörg-R., 90b:68106** *and* **Mansouri, Minou, 90h:68102**
Unger, Kristel ★ The convex hull problem on special planar point sets. **90f:68172**
Van Wyk, Christopher J. *see* **Tarjan, Robert E., 90b:68108a; 90b:68108b** *and* **Dobkin, David P.; et al., 90f:68167**
Wan, S. J. (*with* Wong, S. K. M.) An adaptive algorithm for finding a covering hypersphere. **90m:68103**
Wennmyr, E. A convex hull algorithm for neural networks. **90i:92050**
Wong, S. K. M. *see* **Wan, S. J., 90m:68103**
Wood, Derick *see* **Overmars, Mark H., 90b:68104** *and* **Rawlins, Gregory J. E., 90b:68105**
Zorbas, J. *see* **Bhattacharya, Binay K., 90i:68084**

52–06 Proceedings, conferences, etc.

Items with secondary classifications in 52–06

(Jarić, Marko V.) *see* **Introduction to quasicrystals, 90g:82003**
(Ostlund, Stellan) *see* **Physics of quasicrystals, 90b:82003**
(Steinhardt, Paul J.) *see* **Physics of quasicrystals, 90b:82003**

Items listed otherwise than by author

Introduction to quasicrystals ★ Introduction to quasicrystals. **90g:82003**
Physics of quasicrystals ★ The physics of quasicrystals. **90b:82003**

52A01 Axiomatic and generalized convexity

Bandelt, Hans-Jürgen (*with* van de Vel, M.) Embedding topological median algebras in products of dendrons. **90j:52001**
Guay, Merle D. (*with* Naimpally, S. A.) Finite-dimensional convexity topological spaces. **90a:52001**
Joó, István On some convexities. **90i:52003**
Naimpally, S. A. *see* **Guay, Merle D., 90a:52001**
Rawlins, Gregory J. E. (*with* Wood, Derick) A decomposition theorem for convexity spaces. **90m:52002**
van de Vel, M. *see* **Bandelt, Hans-Jürgen, 90j:52001**
Wieczorek, Andrzej Spot functions and peripherals: Kreĭn-Milman type theorems in an abstract setting. **90f:52005**
Wood, Derick *see* **Rawlins, Gregory J. E., 90m:52002**

Items with secondary classifications in 52A01

Khamsi, M. A. On metric spaces with uniform normal structure. **90c:54028**
Libkin, L. O. (*with* Muchnik, I. B.) Separatory subsemilattices and their properties. (Hungarian summary) **90c:06009**
— Separation theorems for lattices. (Hungarian summary) **90c:06010**
Mardešić, Vera On support points of segmentally closed convex bodies in the rational plan **90f:52006**
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52A05 Convex sets without dimension restrictions

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Palata, J. A survey of conical approximations used in the optimization. **90h:90155**
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Rus, Ioan A. Measures of nonconvexity and fixed points. **90d:54093**
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52A07 Convex sets in topological vector spaces [see also 46A55]

Bakan, A. G. Normal pairs of cones in finite-dimensional spaces. (Russian) **90h:52001**
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Toader, Gh. On a generalization of the convexity. **90h:52002**

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— Correction to the paper: “A note on compact convex sets with equal support property”. **90a:46015b**
Azoff, Edward A. (*with* Younis, R.) On the structure of support point sets. **90m:46014**
Becker, Richard Edouard Sur les cônes faiblement complets, contenus dans un espace de Banach. [On weakly complete cones contained in a Banach space] **90k:46043**
Bensimon, Daniela The topological space of all extreme points of a compact convex set. **90d:46018**
Hadžić, Olga Some fixed point and coincidence point theorems for multivalued mapping in topological vector spaces. **90b:47103**
Nędzusiak, Andrzej Polar reciprocal convex bodies problem in l_p-mixtures. **90c:46025**
Nielsen, Mark J. Singular points of a convex tiling. **90g:52016**
Schmidt, Klaus D. Acknowledgement of priority. **90b:46014**
Sertel, Murat On the continuity of closed convex hull. **90k:46004**
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52A10 Convex sets in 2 dimensions

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Kölzow, D. (*with* Kuba, A.; Volčič, A.) An algorithm for reconstructing convex bodies fro their projections. **90d:52002**
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atov, Vasil M. A method for restoration of convex compact polygons using data from Hausdorff approximation. (Bulgarian. English summary) **90j:52003**
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azhenyuk, F. G. Combinatorial properties of finite sets in the Euclidean plane. (Russian) **90m:52004**
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isztriczky, T. (*with* Fejes Tóth, G.) A generalization of the Erdős-Szekeres convex n-gon theorem. **90b:52005**
ieślak, W. (*with* Góźdź, S.) Extremal polygons circumscribed an oval. **90i:52020**
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óźdź, S. *see* **Cieślak, W., 90i:52020**
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2A15 Convex sets in 3 dimensions

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artinov, Nikola Ĭ. (*with* Vakarelov, Dimit″r) Parallelohedrons. (Bulgarian. English and Russian summaries) **90c:52003**
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erasoli, Mauro (*with* Letta, Giorgio) On the Euler-Poincaré characteristic. (Italian. French summary) **90e:52001**
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eichtweiss, Kurt Zur Affingeometrie beliebiger konvexer Körper. [On the affine geometry of arbitrary convex bodies] **90a:52005**
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Soltan, V. P. (*with* Nguyễn Mạnh Hùng) On the Grünbaum problem on affine diameters. (Russian. English and Georgian summaries) **90k:52005**
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Bogatyĭ, S. A. *see* **Babenko, I. K., 90m:55003**
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Bosznay, Ádam P. (*with* Garay, Barnabas M.) On a geometric problem concerning discs. **90f:46023**
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Bŭchi, J. Richard (*with* Fenton, William E.) Large convex sets in oriented matroids. **90d:05065**
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Dekster, B. V. Diameters of the pieces in Borsuk's covering. **90f:52021**
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Ferrero, O. Convexity conditions for a function defined on a polyhedron, and applications. (Italian. English summary) **90f:26013**
Garay, Barnabas M. *see* **Bosznay, Ádam P., 90f:46023**
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Golubyatnikov, V. P. On the unique determination of visible bodies from their projections. **90d:52004**
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Grząślewicz, Ryszard Plane sections of the unit ball of L^p. **90h:46052**
Juhnke, Friedrich Inradius und Dicke konvexer Körper aus optimierungstheoretischer Sicht. [Inradius and thickness of convex bodies from an optimization-theoretical view] **90f:52018**
Kashin, B. S. Parallelepipeds of least volume that contain a convex body. (Russian) **90e:52010**
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Lutwak, Erwin Intersection bodies and dual mixed volumes. **90a:52023**
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— The Knaster problem and almost spherical sections. **90d:55005**
Mao, Qi Ji (*with* Zuo, Quan Ru) The width of a simplex that touches a given sphere. (Chinese. English summary) **90b:52006**
Mezey, Paul Global and local relative convexity and oriented relative convexity; application to molecular shapes in external fields. **90f:92044**
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Rawlins, Gregory J. E. (*with* Wood, Derick) Ortho-convexity and its generalizations. **90d:52003**
Schneider, Rolf Closed convex hypersurfaces with curvature restrictions. **90a:53010**
Schramm, Oded On the volume of sets having constant width. **90b:52007**
Szarek, S. J. (*with* Talagrand, Michel) An "isomorphic" version of the Sauer-Shelah lemma and the Banach-Mazur distance to the cube. **90h:46034**
Talagrand, Michel *see* **Szarek, S. J., 90h:46034**
Weißbach, Bernulf Schranken für die Dicke der Simplexe. [Bounds for the width of simplices] **90c:52025**
Wood, Derick *see* **Rawlins, Gregory J. E., 90d:52003**
Yost, David Thomas *see* **Payá-Albert, Rafael, 90a:46036**
Zuo, Quan Ru *see* **Mao, Qi Ji, 90b:52006**

52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

Constantin, R. F. The convex hull of n random points in a convex r-polygon in the space M_2. (Romanian) **90c:52010**
Marusova, N. Yu. A class of problems of integral geometry on a plane. (Russian) **90f:52008**
Nagel, Werner Geometric covariograms for pairs of parallel j-planes. **90i:52007**
Panina, G. Yu. Representation of an n-dimensional body in the form of a sum of $(n-1)$-dimensional bodies. **90j:52005**

Peri, Carla Integral geometry in Minkowski plane. (Italian summary) **90a:52007**
Tso, Kaising On symmetrization and Hessian equations. **90f:52009**
Uhrin, B. Two types of random polyhedral sets. (Hungarian summary) **90c:52011**
Zhang, Gao Yong A sufficient condition for one convex body containing another. **90k:52008**

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Aramyan, R. G. Flag representations and measures of curvature of convex bodies. **90a:53083**
Badertscher, E. An explicit formula about the convex hull of random points. **90g:60010**
Ball, Keith Volumes of sections of cubes and related problems. **90i:52019**
Buchta, Christian Zufällige Polyeder—eine Übersicht. [Random polyhedra—an overview] **90k:60024**
Kendall, D. G. A survey of the statistical theory of shape. **90f:60025**
Linhart, Johann Approximation of a ball by zonotopes using uniform distribution on the sphere. **90m:52013**
Molter, Ursula M. Tangent measures over convex bodies in E_3. (Spanish) **90f:60026**
Müller, Josef S. On the mean width of random polytopes. **90k:60026**
Tanno, Shukichi Central sections of centrally symmetric convex bodies. **90c:52009**
Teufel, Eberhard Kinematische Berührformeln in Räumen konstanter Krümmung. [Kinematic contact formulas in spaces of constant curvature] **90m:53080**
Waksman, Peter Inverting the statistics of the circle transform. **90c:60009**
Weil, Wolfgang Translative integral geometry. **90m:60019**
Wieacker, John André Geometric inequalities for random surfaces. **90i:60011**

52A25 Polyhedra and polytopes

(Babbel, Beate) *see* **Miyazaki, Koji, 90k:52012**
Barvinok, A. I. On topological properties of spaces of polytopes. **90c:52012**
Björner, Anders (*with* Kalai, Gil) On f-vectors and homology. **90i:52008**
Blind, Gerd (*with* Blind, Roswitha) Über die Symmetriegruppen von regulärseitigen Polytopen. (English summary) [On the symmetry groups of regular-faced polytopes] **90i:52009**
Blind, Roswitha *see* **Blind, Gerd, 90i:52009**
Bokowski, Jürgen A geometric realization without self-intersections does exist for Dyck's regular map. **90h:52006**
— (*with* Brehm, Ulrich) A polyhedron of genus 4 with minimal number of vertices and maximal symmetry. **90a:52008**
Boneh, A. (*with* Caron, R. J.; Lemire, F. W.; McDonald, James Frederick; Telgen, J.; Vorst, T.) Note on prime representations of convex polyhedral sets. **90f:52010**
Brehm, Ulrich *see* **Bokowski, Jürgen, 90a:52008**
Brøndsted, A. (*with* Maxwell, George) A new proof of the d-connectedness of d-polytopes. **90j:52006**
Caron, R. J. *see* **Boneh, A.; et al., 90f:52010**
Diaconis, Persi (*with* Keller, Joseph B.) Fair dice. **90f:52011**
Duggan, R. C. (*with* Firby, P. A.) On the capacitance of polyhedra. **90b:52003**
Eastaugh, A. (*with* van Nieuwenhuizen, P.) Small oscillations of regular polytopes in $d \geq 4$ space dimensions. **90a:52009**
Filliman, Paul The largest projections of regular polytopes. **90e:52003**
— A metrical characterization of symmetric polytopes. **90f:52013**
— The extreme projections of the regular simplex. **90f:52012**
Firby, P. A. *see* **Duggan, R. C., 90b:52003**
Gadzhimuradov, M. A. The structure of faces of a polyhedral constricting surface. (Russian) **90e:52004**
Goodman, Jacob E. (*with* Pach, János) Cell decomposition of polytopes by bending. **90c:52013**
Guft, I. V. A class of polyhedra. **90g:52004**
Handelman, David E. Representing polynomials by positive linear functions on compact convex polyhedra. **90e:52005**
Harzheim, Egbert A theorem on polyhedra which is related to Alexander's separation theorem. **90e:52006**
Hill, A. (*with* Larman, David) A class of symmetric polytopes. **90a:52010**
Hilton, Peter John (*with* Pedersen, Jean) Duality and the Descartes deficiency. **90a:52011**
Jendroľ, Stanislav A noninvolutory self-duality. **90d:52006**
Kalai, Gil A new basis of polytopes. **90a:52012**
— *see also* **Björner, Anders, 90i:52008**
Kawashima, Toshio On a theorem of Kurnik. (Serbo-Croatian summary) **90k:52009**
Kaykobad, Mohammad On polytopes with large number of vertices. **90j:52007**
Keller, Joseph B. *see* **Diaconis, Persi, 90f:52011**
Larman, David *see* **Hill, A., 90a:52010**
Lawrence, James F. Clustered families of convex sets. **90k:52010**
Lee, Carl W. The associahedron and triangulations of the n-gon. **90i:52010**
Lemire, F. W. *see* **Boneh, A.; et al., 90f:52010**
Lozovanu, D. D. (*with* Unguryanu, V. A.) On the nesting of convex polyhedral sets defined by systems of linear inequalities. (Russian. English summary) **90f:52014**
Makarov, P. V. On the derivation of four-dimensional semi-regular polytopes. (Russian) **90b:52004**
Martini, Horst Das Volumen spezieller konvexer Polytope. [The volume of special convex polytopes] **90k:52011**
Maxwell, George *see* **Brøndsted, A., 90j:52006**
McDonald, James Frederick *see* **Boneh, A.; et al., 90f:52010**
McMullen, Peter Realizations of regular polytopes. **90c:52014**
Miyazaki, Koji ★ Polyeder und Kosmos. (German) [Polyhedra and cosmos] **90k:52012**
Mnëv, N. E. The universality theorems on the classification problem of configuration varieties and convex polytopes varieties. **90a:52013**
van Nieuwenhuizen, P. *see* **Eastaugh, A., 90a:52009**
O'Rourke, Joseph (*with* Schevon, Catherine) On the development of closed convex curves on 3-polytopes. **90j:52008**
Pach, János *see* **Goodman, Jacob E., 90c:52013**
Pedersen, Jean *see* **Hilton, Peter John, 90a:52011**
Schevon, Catherine *see* **O'Rourke, Joseph, 90j:52008**
Shashkin, Yu. A. ★ The Euler characteristic. **90g:52005**
(Shokurov, Vladimir) *see* **Shashkin, Yu. A., 90g:52005**
Stephanides, Adam Regular incidence quasi-polytopes and regular maps. **90f:52015**
Telgen, J. *see* **Boneh, A.; et al., 90f:52010**
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Weng, Wen Hui Fuzzy simplices. (Chinese. English summary) (Not in MR)
Whiteley, Walter Infinitesimally rigid polyhedra. II. Modified spherical frameworks. **90a:52014**
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— Crystal-chemical model of atomic interactions. IV. Prognostic ability: crystals and quasicrystals. **90i:82052**
Bača, Martin Labelings of two classes of convex polytopes. **90c:05196**
Bárány, I. (*with* Larman, David) Convex bodies, economic cap coverings, random polytopes. **90c:52020**
Biham, Ofer (*with* Mukamel, David; Shtrikman, S.) Stability and deformations in quasicrystalline solids. (*see* **90g:82003**)
Bilinski, S. Die windschiefen Archimedischen Polyeder höheren Geschlechtes. [The skew Archimedean polyhedra of higher genus] **90e:51024**
Bokowski, Jürgen (*with* Sturmfels, Bernd) ★ Computational synthetic geometry. **90i:520**
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Bourgain, J. (*with* Lindenstrauss, J.) Distribution of points on spheres and approximatio by zonotopes. **90g:46021**
— (*with* Lindenstrauss, J.; Milman, Vitali D.) Approximation of zonoids by zonotopes. **90g:46020**
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Cordovil, Raul (*with* de Oliveira, A. Guedes; Moreira, M. Leonor) Parallel projection of matroid spheres. **90c:05049**
Coxeter, H. S. M. Trisecting an orthoscheme. **90d:51034**
— Star polytopes and the Schläfli function $f(\alpha, \beta, \gamma)$. **90d:51033**
Dimovski, Ivan Hristov Generalization of a problem of Academician L. Chakalov. (Bulgarian. English summary) **90f:51026**
Dobkin, David P. (*with* Laszlo, Michael J.) Primitives for the manipulation of three-dimensional subdivisions. **90g:68015**
Edelsbrunner, Herbert *see* **Chazelle, Bernard; et al., 90c:68075**
Fleurent, G. M. Symmetry and polyhedral stellation. Ia. **90g:51028**
— Symmetry and polyhedral stellation. Ib. **90g:51029**
Gretenkort, Jörg (*with* Kleinschmidt, Peter; Sturmfels, Bernd) On the existence of certai smooth toric varieties. **90j:14066**
Grudskiĭ, I. M. The Christoffel-Schwarz formula for polyhedral surfaces. **90m:30010**
Guibas, Leonidas *see* **Chazelle, Bernard; et al., 90c:68075**
Hacon, Derek (*with* Tomei, C.) Tetrahedral decompositions of hexahedral meshes. **90i:51022**
Hibi, Takayuki What can be said about pure O-sequences? **90d:52012**
Hsiang, Wu-Yi On infinitesimal symmetrization and volume formula for spherical or hyperbolic tetrahedrons. **90b:51026**
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Mao, Qi Ji An inequality for "metric addition". (Chinese) **90j:51024**
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52A43 Lattices and convex bodies [see also 11H06]

Brion, Michel Points entiers dans les polyèdres convexes. [Lattice points in convex polyhedra] **90d:52020**
DeTemple, Duane (*with* Robertson, Jack M.) Graphs associated with triangulations of lattice polygons. **90h:52017**
Gruber, Peter M. Minimal ellipsoids and their duals. **90c:52027**
Lubensky, T. C. Symmetry, elasticity, and hydrodynamics in quasiperiodic structures. (*see* **90g:82003**)
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Robertson, Jack M. *see* **DeTemple, Duane, 90h:52017**

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Banar′, V. V. Bravais types of lattices of three-dimensional Minkowski space whose holohedron contains rotations around only one real axis. (Russian) (*see* **90h:11001**)
Bertaut, Erwin-Félix Métrique des opérateurs de symétrie cristallographique transitifs dans les espaces E^N. (English summary) [Metrics of transitive crystallographic symmetry operators in the spaces E^N] **90k:20081**
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Erdős, Paul (*with* Gruber, Peter M.; Hammer, Joseph) ★ Lattice points. **90g:11081**
Florian, August Verteilung von Punkten in einem Quadrat. [Distribution of points in a square] **90k:52017**
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Goldman, Alan I. *see* **Bak, Per, (90g:82003)**
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Khuramov, A. The densest packing by balls of a single-type of $\mathbf{R}^n$ for $n \leq 24$. (Russian) (*see* **90e:00005**)
Koch, Helmut (*with* Venkov, B. B.) Über ganzzahlige unimodulare euklidische Gitter. [On integral unimodular Euclidean lattices] **90g:11082**
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Lu, Jian Ping (*with* Birman, Joseph L.) Symmetry of quasiperiodic lattices and decomposability of crystallographic point groups. **90j:20109**
Mandal, Rajiv Kumar (*with* Lele, Shrikant) Periodic pentagonal and decagonal quasicrystals. **90c:82047**
Maxwell, George Wythoff's construction for Coxeter groups. **90g:20071**
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— Self-similarity of quasilattices in two dimensions. I. The n-gonal quasilattice. **90k:11078**
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Venkov, B. B. *see* **Koch, Helmut, 90g:11082**
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52A45 Packing, covering, tiling [see also 05B40, 05B45, 11H31, 51–XX]

Alexander, Shlomo *see* **Olami, Z., 90a:52028**
Bezdek, A. (*with* Bezdek, K.) A note on the ten-neighbour packings of equal balls. **90a:52025**
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Kuperberg, W. *see* **Kuperberg, G., 90k:52027**
Leech, John (*with* Tarnai, T.) Arrangements of 22 circles on a sphere. **90k:52028**
Levitov, L. S. Local rules for quasicrystals. **90i:52022**
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Nielsen, Mark J. Singular points of a convex tiling. **90g:52016**
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— (*with* Kléman, M.) A two-dimensional aperiodic dense tiling. (French summary) **90a:52029**
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Roth, Richard L. Isohedral tilings of a ribbon. **90g:52017**
Roux, Stéphane (*with* Guyon, Etienne; Sornette, Didier) Hull percolation. **90b:52008**
Scheithauer, Guntram (*with* Terno, Johannes) The partition of a square in rectangles with equal areas. (German and Russian summaries) **90a:52030**
Schmitt, Peter Polymorphic prototiles for multiple tilings. **90f:52023**
— Polymorphic pairs of prototiles. **90f:52024**
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— Zur Zerlegung von Kreisüberdeckungen $\mathfrak{Ü}(r,1)$ der Ebene in zwei Kreispackungen $\mathfrak{P}(r,1)$ und $\mathfrak{Q}(r)$. [On the decomposition of circle coverings $\mathfrak{Ü}(r,1)$ of the plane into two circle packings $\mathfrak{P}(r,1)$ and $\mathfrak{Q}(r)$] **90f:52025**
— *see also* **Bezdek, K., 90g:52014**
Shephard, G. C. *see* **Grünbaum, Branko, 90a:52027**
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Sloane, N. J. A. *see* **Graham, R. L., 90j:52016**
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Sornette, Didier *see* **Roux, Stéphane; et al., 90b:52008**
Stein, Sherman Equidissections of centrally symmetric octagons. **90g:52018**
Tarnai, T. *see* **Leech, John, 90k:52028**
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Valette, Guy A better packing of ten equal circles in a square. **90g:52019**
Yakovlev, S. V. On a class of problems on covering of a bounded set. **90g:52020**
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— (*with* Lindenstrauss, J.; Milman, Vitali D.) Approximation of zonoids by zonotopes. **90g:46020**
Brunvoll, J. *see* **Cyvin, S. J.; et al., 90f:92039**
Charvolin, J. *see* **Sadoc, J.-F., 90j:53008**
Cyvin, B. N. *see* **Cyvin, S. J.; et al., 90f:92039**
Cyvin, S. J. (*with* Brunvoll, J.; Cyvin, B. N.) Topological aspects of benzenoids and coronoids, including "snowflakes" and "laceflowers". **90f:92039**
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— A heptomino of order 76. **90b:05042**
— Erratum: "A heptomino of order 76" [J. Combin. Theory Ser. A **51** (1989), no. 1, 127–128; MR 90b:05042]. **90j:05053**
David, Guy René (*with* Tomei, C.) The problem of the calissons. **90c:51024**
Duneau, Michel (*with* Oguey, C.) Displacive transformations and quasicrystalline symmetries. (French summary) **90k:82074**
Engel, Peter Mathematical problems in modern crystallography. **90e:82071**
Ginzburg, V. V. (*with* Zel′venskiĭ, I. G.) Group hierarchies in hierarchical packing constructions. (Russian) **90g:94022**
Golomb, S. W. Polyominoes which tile rectangles. **90b:05040**
(Gratias, Denis) *see* **Extended icosahedral structures, 90h:82064**
Groemer, H. On convex bodies that permit packings of high density. **90m:52012**
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(Jarić, Marko V.) *see* **Extended icosahedral structures, 90h:82064**
Kabatyanskiĭ, G. A. (*with* Panchenko, V. I.) Packings and coverings of the Hamming space by balls of unit radius. **90j:94031**
Kerner, R. (*with* dos Santos, D. M.) A model of growth of crystalline and amorphous structures. Application to Penrose tilings. (*see* **90i:00004**)
Kuiper, Nicolaas H. Hyperbolic 4-manifolds and tesselations. **90k:57022**
Levitov, L. S. Icosahedral quasicrystals with continuous phasons. (French summary) **90k:82077**
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Makovicky, E. Ornamental brickwork. Theoretical and applied symmetrology and classification of patterns. **90c:51025**
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Milman, Vitali D. *see* **Bourgain, J.; et al., 90g:46020**
Molnár, Emil (*with* Prok, István) A polyhedron algorithm for finding space groups. **90g:51018**
Niizeki, Komajiro A classification of two-dimensional quasi-periodic tilings obtained with the grid method. **90e:82073**
Oguey, C. *see* **Duneau, Michel, 90k:82074**
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Pottie, Gregory J. (*with* Taylor, Desmond P.) Sphere-packing upper bounds on the free distance of trellis codes. **90a:94046**
Prok, István *see* **Molnár, Emil, 90g:51018**
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Rodin, Burt (*with* Sullivan, Dennis) The convergence of circle packings to the Riemann mapping. **90c:30007**
— Schwarz's lemma for circle packings. II. **90m:11099**
Sadoc, J.-F. (*with* Charvolin, J.) Infinite periodic minimal surfaces and their crystallography in the hyperbolic plane. **90j:53008**
dos Santos, D. M. *see* **Kerner, R., (90i:00004)**
Saruyama, Yasuo Structure of minimum potential packing of helical polymer molecules. **90k:82080**
Schmitz, Michael Über Wolken aus inkongruenten Kugeln für eine Ebene. [On clouds consisting of incongruent spheres for a plane] **90c:52022**
Shekhovtsov, S. B. (*with* Yakovlev, S. V.) Formalization and solution of a class of covering problems in the design of monitoring and control systems. (Not in MR)
Simonis, Juriaan Covering radius: improving on the sphere-covering bound. **90h:94046**
Sullivan, Dennis *see* **Rodin, Burt, 90c:30007**
Taylor, Desmond P. *see* **Pottie, Gregory J., 90a:94046**
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Yugaĭ, S. A. Application of demonstrative calculations on a computer to improving the estimate of the largest density of a packing of equal balls. (Russian) **90f:11047**
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52A55 Spherical and hyperbolic convexity

Debrunner, Hans E. Die Dehnsche Zerlegungsinvariante für hyperbolische Polyederbausteine. [The Dehn decomposition invariant for hyperbolic polyhedra building blocks] **90i:52024**

Items with secondary classifications in 52A55

Bollobás, Béla An extension of the isoperimetric inequality on the sphere. **90e:52009**

52A99 Miscellaneous topics

Items with secondary classifications in 52A99

Nieminen, Juhani Join space graphs. **90g:05153**
Strantzen, J. B. Infinite dimensions for ordered incidence geometry. **90k:51003**

53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–01 Elementary exposition; textbooks

(Chern, Shiing Shen) *see* **Hopf, Heinz, 90f:53001**
Dubrovin, B. A. (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I] **90h:53001a**
— (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. II. (Italian) [Modern geometry. Methods and applications. Vol. II] **90h:53001b**
Flanders, Harley ★ Differential forms with applications to the physical sciences. **90k:5300**
Fomenko, A. T. *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
Francaviglia, Mauro ★ Elements of differential and Riemannian geometry. **90a:53001**
(Gray, John W.) *see* **Hopf, Heinz, 90f:53001**
Hopf, Heinz ★ Differential geometry in the large. **90f:53001**
Kocharovs′kiĭ, V. G. *see* **Kovantsov, N. I.; et al., 90k:53002**
Kovantsov, N. I. (*with* Zrazhevs′ka, G. M.; Kocharovs′kiĭ, V. G.; Mikhaĭlovs′kiĭ, V. I.) ★ Дифференциальная геометрия, топология, тензорный анализ. (Russian) [Differentia geometry, topology, tensor analysis] **90k:53002**
(Lax, Peter D.) *see* **Hopf, Heinz, 90f:53001**
Mikhaĭlovs′kiĭ, V. I. *see* **Kovantsov, N. I.; et al., 90k:53002**
Novikov, S. P. *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
(Panasenko, Vitalij) *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] **90h:53002**
Stoker, J. J. ★ Differential geometry. **90f:53002**
(Voss, Konrad) *see* **Hopf, Heinz, 90f:53001**
Zrazhevs′ka, G. M. *see* **Kovantsov, N. I.; et al., 90k:53002**

Items with secondary classifications in 53–01

Coxeter, H. S. M. ★ Introduction to geometry. **90a:51001**

53–02 Advanced exposition (research surveys, monographs, etc.)

Cordero, Luis A. (*with* Dodson, C. T. J.; de León, Manuel) ★ Differential geometry of fram bundles. **90d:53001**
Dodson, C. T. J. *see* **Cordero, Luis A.; et al., 90d:53001**
de León, Manuel *see* **Cordero, Luis A.; et al., 90d:53001**
White, Brian Cabell Some recent developments in differential geometry. **90k:53003**

Items with secondary classifications in 53–02

(Atiyah, Michael) *see* **Hodge, W. V. D., 90g:58001**
Hodge, W. V. D. ★ The theory and applications of harmonic integrals. **90g:58001**
Palais, Richard S. (*with* Terng, Chuu-Lian) ★ Critical point theory and submanifold geometry. **90c:53143**
Salamon, Simon ★ Riemannian geometry and holonomy groups. **90g:53058**
Terng, Chuu-Lian *see* **Palais, Richard S., 90c:53143**

53–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 53–03

Akivis, M. A. (*with* Tikhonov, V. A.) A summary of the scientific research of Vyacheslav Timofeevich Bazylev. (Russian) **90j:01036**
(Bazylev, V. T.) *see* **Akivis, M. A., 90j:01036**
Bliznikas, V. I. (*with* Norden, A. P.; Shapukov, B. N.; Shirokov, A. P.) The scientific legac of Boris Lukich Laptev (23.04.1905–15.01.1989). (Russian) **90j:01047**
Borgato, Maria Teresa (*with* Ferreira, Arturo Vaz) Giuseppe Vitali: mathematical researc and academic activity after 1918. (Italian) **90e:01033**
Charlton, T. M. An extension of Maxwell's theory of pin-jointed frameworks by M. W. Crofton, F. R. S. **90b:01029**
Chern, Shiing Shen American differential geometry—some personal notes. **90g:01027**
(Crofton, M. W.) *see* **Charlton, T. M., 90b:01029**
Ferreira, Arturo Vaz *see* **Borgato, Maria Teresa, 90e:01033**
(Kobayashi, Shoshichi) *see* **Nagano, Tadashi, 90b:01083**
(Laptev, B. L.) *see* **Bliznikas, V. I.; et al., 90j:01047**
Nagano, Tadashi Work of Shoshichi Kobayashi. (Japanese) **90b:01083**
Norden, A. P. *see* **Bliznikas, V. I.; et al., 90j:01047**
(Sandovici, Profira) *see* **Ţarină, M., 90i:53037**
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53–06 Proceedings, conferences, etc.

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53Axx Classical differential geometry

53A04 Curves in Euclidean space

Afify, R. A. *see* **Beltagy, M. A., 90d:53004**

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53A10 Minimal surfaces, surfaces with prescribed mean curvature [see also 49F10, 53C42]

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53A15 Affine differential geometry

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Dillen, Franki (*with* Vrancken, Luc) Complex affine hypersurfaces of $\mathbf{C}^{n+1}$. I. **90i:53010**
— Equivalence theorems in affine differential geometry. **90j:53009**
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Kozlowski, Michael Improper affine spheres. **90g:53013**
— Surfaces defined by solutions of the Euler-Lagrange equation. **90i:53011**
— A class of affine maximal hypersurfaces. **90g:53014**
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53A17 Kinematics

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Tarnai, T. (*with* Makai, Endre, Jr.) Physically inadmissible motions of a movable pair of tetrahedra. (*see* **90d:51003**)

Vogler, Hans Zwangläufe in höchstens vierdimensionalen euklidischen Raum $\mathbf{E}_\nu$ mit affin durchlaufenen Bahnpunktsmengen. [Forced motions in at most four-dimensional Euclidean space $\mathbf{E}_\nu$ with affinely traversed sets of orbit points] **90m:53023**

Wresnik, Helmut Bögen der kinematischen Ordnung 2 in der isotropen Ebene. (English summary) [Arcs of kinematic order 2 in the isotropic plane] **90f:53015**

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(Bogolyubov, Alekseĭ Nikolaevich) *see* **Fedosova, S. A., 90j:01022**

Dimitrov, L. *see* **Firneis, F.; et al., 90i:51029**

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Firneis, F. (*with* Firneis, M.; Dimitrov, L.; Frank, G.; Thaller, R.) On some applications of quaternions in geometry. **90i:51029**

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Frank, G. *see* **Firneis, F.; et al., 90i:51029**

Hsu, C. H. *see* **Yen, Hung Sên, 90d:70012**

Karger, Adolf Curvature properties of 6-parametric robot manipulators. **90j:53080**

Kaveh, A. Topology and skeletal structures. (German and Russian summaries) **90b:73043**

Kryukov, Yu. I. Planning the displacements of a multilink kinematic chain as a search process for an extremum of a function in the state space of a system. (Russian) **90a:70001**

Müller, Hans Robert Zur Anormalität von Strahlen einer kinematisch erzeugten Kongruenz. [On the anomaly of rays of a kinematically generated congruence] **90e:53021**

Overdijk, Douwe ★ De driedimensionale constructie van Reuleaux. (Dutch) [Reuleaux's three-dimensional constructions] **90b:53001**

Thaller, R. *see* **Firneis, F.; et al., 90i:51029**

Tokarenko, A. M. *see* **Fedosova, S. A., 90j:01022**

Yen, Hung Sên (*with* Hsu, C. H.) Contracted graphs of kinematic chains with multiple joints. **90d:70012**

Zubov, V. I. Precision approximation of kinematic trajectories. **90g:70032**

53A20 Projective differential geometry

Bochillo, G. P. Fields of quadratic cones, and distributions on the manifold of all hyperplane elements of $\mathbf{P}_n$. (Russian) **90d:53021**

Dragnev, M. V. (*with* Ryzhkov, V. V.) Some classes of mappings of $\mathbf{P}_3$ into $\mathbf{P}_2$. **90f:53016**

Grishina, I. A. *see* **Ivlev, E. T., 90h:53016**

Ivlev, E. T. (*with* Grishina, I. A.) On the fibration of a family of projective nondegenerate null-pairs. **90h:53016**

Korsakova, L. G. Congruence of conic pairs with given properties of associated images. (Russian) **90f:53017**

Malakhovskiĭ, N. V. Two-dimensional manifolds in the direct product of projective spaces. (Russian) **90e:53020**

Moiseev, S. A. Curves in a projective space with a nonplanar absolute of special form. (Russian) **90f:53018**

Ovchinnikov, V. M. A differentiable correspondence of a point space with a space of hyperplane elements. (Russian) **90f:53019**

Pavlyuchenko, Yu. V. (*with* Ryzhkov, V. V.) On the theory of the bending of point correspondences. ω-systems in the four-dimensional case. (Russian) **90k:53021**

Piccolella, Lia Fioravanti More on a differential characterization of Veronese manifolds. **90c:53032**

Ryzhkov, V. V. *see* **Dragnev, M. V., 90f:53016** *and* **Pavlyuchenko, Yu. V., 90k:53021**

Shmeleva, S. V. Congruences $\mathfrak{A}$. (Russian) **90d:53022**

Skrydlova, E. V. Stratifiable degenerate congruences that are generated by a pair of conics. (Russian) **90g:53016**

Švec, Alois A projective characterization of the Veronese surface. **90g:53017**

Tsivinskaya, T. M. Geodesic submanifolds of a pair of line congruences in P_3. (Russian) (*see* **90c:53001**)

Utkin, Alekseĭ Alekseevich A geometric condition for a triple of curves in a three-dimensional projective space to belong to a normcurve. (Russian) **90h:53017**

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Abdel-All, N. H. *see* **Soliman, M. A., 90b:53010**

Dryuma, V. S. The theory of submanifolds of projective spaces that can be determined by differential equations. (Russian) **90f:58084**

Frescura, F. A. M. Projective spinor geometry and prespace. **90c:53040**

Krivoruchko, G. V. *see* **Rosenfeld, B. A.; et al., 90b:53012**

Röschel, Otto Symmetrische Schrotungen im reellen dreidimensionalen projektiven Raum. [Symmetric helical displacements in real three-dimensional projective space] **90j:53014**

Rosenfeld, B. A. (*with* Krivoruchko, G. V.; Shul′ga, N. V.; Yukhtina, T. I.) Metric and symplectic Segreans and quasi-Segreans. **90b:53012**

Scott, Richard A. Differential invariants of curves in projective space. **90b:53018**

Shul′ga, N. V. *see* **Rosenfeld, B. A.; et al., 90b:53012**

Soliman, M. A. (*with* Abdel-All, N. H.) Three orthogonal system of line complexes immersed in a space of constant curvature. (Arabic summary) **90b:53010**

Švec, Alois Differential geometry of surfaces. **90c:53030**

Yukhtina, T. I. *see* **Rosenfeld, B. A.; et al., 90b:53012**

53A25 Differential line geometry

Abdel-All, N. H. Osculating spaces defining line manifolds in a flaggen [flag] 3-space. (Arabic summary) **90b:53008**

— *see also* **Soliman, M. A., 90b:53010**

Atanasyan, S. L. Some particular classes of congruences of straight lines in three-dimensional Galilean and pseudo-Galilean spaces. (Russian) **90k:53022**

Cenkl, Bohumil The Bianchi theorem in higher dimensions. **90b:53009**

Denisova, N. S. Some properties of ruled surfaces in a three-dimensional biquasi-elliptic space. (Russian) **90k:53023**

Evdokimova, R. I. (*with* Zatsepina, O. V.) Reguli in the space $\overline{B}_4^2$ and complexes in ${}^1S_5$. (Russian) **90g:53018**

Hassanien, S. F. *see* **Soliman, M. A., 90a:53019** *and* **90a:53020**

Kaznina, O. V. p-conjugate systems in the Fubini-Čech problem. (Russian) **90k:53024**
Kharisova, N. Kh. *see* **Norden, A. P., 90c:53033**
Kondrashenkov, V. A. Three-parameter families of curves that admit finite Lie groups. (Russian) (*see* **90k:51002**)
— On an interpretation of the geometry of curvilinear complexes. (Russian) (*see* **90m:00019**)
Koneva, N. P. The congruences W in a biaxial space of hyperbolic type. (Russian) **90i:53014**
Köse, Ömer (*with* Nizamoğlu, Şuur; Sezer, Mehmet) An explicit characterization of dual spherical curves. (Turkish summary) **90f:53020**
Müller, Hans Robert Zur Anormalität von Strahlen einer kinematisch erzeugten Kongruenz. [On the anomaly of rays of a kinematically generated congruence] **90e:53021**
Nizamoğlu, Şuur (*with* Sezer, Mehmet) Differential-geometric conditions for isotropic congruences. (Turkish. English summary) **90m:53024**
— *see also* **Köse, Ömer; et al., 90f:53020**
Norden, A. P. (*with* Kharisova, N. Kh.) Moment space in the geometry of pairs of ruled surfaces of a four-dimensional Euclidean space. **90c:53033**
Papadopoulou-Florou, Despina Vektorräume, die Strahlensystemen zugeordnet sind. (English summary) [Vector spaces which are assigned to ray systems] **90f:53021**
Papantoniou, B. J. On the rectilinear congruences of Lorentz manifold $[\mathbf{R}^3, (+,+,-)]$ establishing a mapping between its focal surfaces, preserving the mean curvatures. **90c:53034**
— *see also* **Tsagas, Gr., 90f:53023**
Redozubova, O. S. Doubly orthogonal pairs of T congruences. (Russian) **90k:53025**
Rybin, V. M. Reguli in a four-dimensional quasibiflag space. (Russian) **90f:53022**
Savos'kina, I. I. The ruled geometry of the quasi-elliptic space S_n^1. (Russian) **90k:53026**
Sezer, Mehmet *see* **Köse, Ömer; et al., 90f:53020** *and* **Nizamoğlu, Şuur, 90m:53024**
Soliman, M. A. (*with* Hassanien, S. F.) The Klein images of different types of line complexes immersed in S_3 onto the hyperquadric P^4 of S_5. (Arabic summary) **90a:53019**
— (*with* Hassanien, S. F.) The Klein images of a class of line complexes with one of the principal surfaces coincident with the coordinate surface. (Arabic summary) **90a:53020**
— (*with* Abdel-All, N. H.) Three orthogonal system of line complexes immersed in a space of constant curvature. (Arabic summary) **90b:53010**
Staĭshene, Ya. Z. Geometry of nonholonomic hypercomplexes of a multidimensional affine space. II. **90a:53021**
Strubecker, Karl Dichtetreue Geradenabbildungen der Ebene. [Density-preserving mappings of lines in the plane] **90b:53011**
Tsagas, Gr. (*with* Papantoniou, B. J.) On the rectilinear congruences of Lorentz manifold establishing an area preserving representation. **90f:53023**
Wresnik, Helmut Regelflächen mit einem Büschel ebener Fußpunktkurven, welche die Erzeugenden nach kongruenten Punktreihen schneiden. [Ruled surfaces with a pencil of plane pedal curves which intersect the generators according to congruent point series] **90h:53018**
— Fusspunktkurven auf $(k+1)$-Regelflächen. [Pedal curves on $(k+1)$-ruled surfaces] **90i:53015**
Zatsepina, O. V. Canonization of a frame of complexes of lines in the Lobachevskiĭ 4-space. (Russian) **90e:53022**
— *see also* **Evdokimova, R. I., 90g:53018**

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Grebenyuk, M. F. Focal manifolds that are associated with an $H(M(\Lambda))$-distribution of an affine space. (Russian) **90f:53012**
Lebedeva, G. A. Geodesic submanifolds of a 2-family of lines in Sp_5. (Russian) (*see* **90c:53001**)
Müller, Hans Robert Über Öffnungsmaße kinematisch erzeugter geschlossener Regelflächen. [On opening measures of kinematically generated closed ruled surfaces] **90a:53017**
Papantoniou, B. J. Congruences of a Lorentz manifold the focal surfaces of which have constant mean curvature. **90g:53019**
Rath, Wolfgang Kubische Regelflächen als Kreisbewegflächen des Flaggenraumes. [Cubic ruled surfaces as circular movable surfaces of the flag space] **90c:53038**
Röschel, Otto Ein Beitrag zur Kinematik des Geradenraumes. (Russian and Czech summaries) [A contribution to the kinematics of the line space] **90k:53019**
Rovenskiĭ, V. Yu. Decomposition of ruled and parabolic surfaces. **90c:53146**
Shul'ga, N. V. Congruences of hyperbolic straight lines of the Lobachevskiĭ space $^1S_{n+1}$ and their application in studying mappings of the conformal space C_n. (Russian) **90m:53026**
Tsivinskaya, T. M. Geodesic submanifolds of a pair of line congruences in P_3. (Russian) (*see* **90c:53001**)
Vančura, Zdeněk Differentialgeometrie der n-dimensionalen Kugel- und Linienmannigfaltigkeiten im $(n+1)$-dimensionalen euklidischen Raum. (Russian and Czech summaries) [Differential geometry of the n-dimensional sphere and line manifolds in $(n+1)$-dimensional Euclidean space] **90c:53016**

53A30 Conformal differential geometry

Banchoff, Thomas F. Geometry of the Hopf mapping and Pinkall's tori of given conformal type. **90c:53035**
Bronshteĭn, R. F. A conformal theory of distributions of codimension two. (Russian) **90k:53027**
Filonenko, L. A quadratic hyperstrip and normal connections of a submanifold in a conformal space. (Russian. English summary) **90f:53024**
Isu, Minoru Notes on conformal changes of metrics on a Riemannian manifold. **90f:53025**
Kostant, Bertram (*with* Sternberg, Shlomo) The Schwartzian [Schwarzian] derivative and the conformal geometry of the Lorentz hyperboloid. **90j:53015**
Kulkarni, Ravi S. Conformal structures and Möbius structures. **90f:53026**
Lafontaine, Jacques Conformal geometry from the Riemannian viewpoint. **90a:53022**
— The theorem of Lelong-Ferrand and Obata. **90c:53036**
Li, Zhong Lin A class of conformal mappings of Riemannian spaces. (Chinese) **90a:53023**
Makarov, V. S. Matrix representations of the fundamental groups of certain three-dimensional manifolds of constant negative curvature that have a finite measure. (Russian) **90d:53079**
Papantoniou, B. J. On the rectilinear congruence of Lorentz manifold $[\mathbf{R}^3, (+,+,-)]$ establishing a conformal mapping between its focal surfaces. **90a:53024**
Sternberg, Shlomo *see* **Kostant, Bertram, 90j:53015**
Zund, J. D. The tensorial form of the Cauchy-Riemann equations. **90c:53037**

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Anglès, Pierre Real conformal spin structures on manifolds. **90d:57031**
Asperti, Antonio Carlos (*with* Dajczer, M.) Conformally flat Riemannian manifolds as hypersurfaces of the light cone. **90g:53070**
Branson, Thomas P. Group representations arising from Lorentz conformal geometry. **90b:22016**
— Conformal transformation, conformal change, and conformal covariants. **90k:58249**
Ch'ên, Fu Hsiang *see* **Chêng, Kuo Shun; et al., 90i:58200**
Chêng, Kuo Shun (*with* Ch'ên, Fu Hsiang; Yü, Wên Nêng) Conformal deformations of metrics on Poincaré disk. **90i:58200**
Dajczer, M. *see* **Asperti, Antonio Carlos, 90g:53070**
Delanoë, Ph. About the splitting $\mathbf{R}^N = \mathbf{R}^n \times \mathbf{R}^{N-n}$, $2 < n \leq N$, in a theorem of Wei-Ming Ni. **90m:35061**
Dick, Rainer Conformal gauge fixing in Minkowski space. **90g:81225**
Dray, Tevian (*with* Kulkarni, Ravi S.; Samuel, Joseph) Duality and conformal structure. **90b:53082**
Filipescu, A. On a functional equation. (Romanian summary) **90g:39017**
Goldman, William M. (*with* Kamishima, Yoshinobu) Topological rigidity of developing maps with applications to conformally flat structures. **90f:53060**
Gover, Rod Conformally invariant operators of standard type. **90k:58254**
Graham, Carl On Sparling's characterization of Fefferman metrics. **90f:32021**
Gutsul, I. S. Three-dimensional manifolds of constant negative curvature, and noncrumpl surfaces. (Russian) **90d:53078**
Kamishima, Yoshinobu *see* **Goldman, William M., 90f:53060**
Kossowski, Marek The intrinsic conformal structure and Gauss map of a light-like hypersurface in Minkowski space. **90b:53076**
Kulkarni, Ravi S. *see* **Dray, Tevian; et al., 90b:53082**
Kusner, Rob Comparison surfaces for the Willmore problem. **90e:53013**
LeBrun, Claude Quaternionic-Kähler manifolds and conformal geometry. **90e:53062**
Ó Murchadha, Niall The Yamabe theorem and general relativity. **90k:53078**
Pinkall, Ulrich Compact conformally flat hypersurfaces. **90a:53071**
Rouxel, Bernard Sur quelques propriétés conformes des surfaces de Borůvka de E^4. [Som conformal properties of Borůvka surfaces in E^4] **90i:53007**
Samuel, Joseph *see* **Dray, Tevian; et al., 90b:53082**
Sasaki, Takeshi (*with* Yoshida, Masaaki) Linear differential equations modeled after hyperquadrics. **90h:32050**
Troyanov, Marc Metrics of constant curvature on a sphere with two conical singularities. **90m:53057**
Yoshida, Masaaki *see* **Sasaki, Takeshi, 90h:32050**
Yü, Wên Nêng *see* **Chêng, Kuo Shun; et al., 90i:58200**

53A35 Non-Euclidean differential geometry

Felińska, Halina On some properties of the spherical bundle T_1, L_2. **90m:53025**
Krivoruchko, G. V. *see* **Rosenfeld, B. A.; et al., 90b:53012**
Papantoniou, B. J. Congruences of a Lorentz manifold the focal surfaces of which have constant mean curvature. **90g:53019**
Rosenfeld, B. A. (*with* Krivoruchko, G. V.; Shul'ga, N. V.; Yukhtina, T. I.) Metric and symplectic Segreans and quasi-Segreans. **90b:53012**
Shul'ga, N. V. Congruences of hyperbolic straight lines of the Lobachevskiĭ space $^1S_{n+1}$ an their application in studying mappings of the conformal space C_n. (Russian) **90m:5302**
— *see also* **Rosenfeld, B. A.; et al., 90b:53012**
Yukhtina, T. I. *see* **Rosenfeld, B. A.; et al., 90b:53012**

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Abdel-All, N. H. Osculating spaces defining line manifolds in a flaggen [flag] 3-space. (Arabic summary) **90b:53008**
— *see also* **Soliman, M. A., 90b:53010**
Arutyunyan, S. Kh. Some classes of submanifolds of the pseudo-Euclidean space $E_{2(n+1)}^{n+1}$. (Russian) **90i:53005**
Evdokimova, R. I. (*with* Zatsepina, O. V.) Reguli in the space $\overline{B}_4^2$ and complexes in $^1S_5$. (Russian) **90g:53018**
Ferapontov, E. V. Weakly nonlinear semi-Hamiltonian systems of three differential equations from the point of view of web theory. (Russian. English summary) **90a:5302**
Gutsul, I. S. (*with* Makarov, V. S.) Noncomplete three-dimensional manifolds with a locally Lobachevskian metric. (Russian) **90b:53013**
Hassanien, S. F. *see* **Soliman, M. A., 90a:53020**
Makarov, V. S. *see* **Gutsul, I. S., 90b:53013**
Röschel, Otto Torusflächen des galileischen Raumes G_3. [Torus surfaces of the Galilei spa G_3] **90b:51030**
Ryabushko, V. A. A tri-orthogonal system of vector fields in a three-dimensional pseudo-Euclidean space. (Russian. English summary) **90e:53023**
Rybin, V. M. Reguli in a four-dimensional quasibiflag space. (Russian) **90f:53022**
Sabitov, I. Kh. Isometric immersions of the Lobachevskiĭ plane in E^4. **90k:53099**
Soliman, M. A. (*with* Hassanien, S. F.) The Klein images of a class of line complexes wit one of the principal surfaces coincident with the coordinate surface. (Arabic summary) **90a:53020**
— (*with* Abdel-All, N. H.) Three orthogonal system of line complexes immersed in a spac of constant curvature. (Arabic summary) **90b:53010**
Walter, Rolf Constant mean curvature tori with spherical curvature lines in non-Euclidea geometry. **90a:53016**
Zatsepina, O. V. Canonization of a frame of complexes of lines in the Lobachevskiĭ 4-spa (Russian) **90e:53022**
— *see also* **Evdokimova, R. I., 90g:53018**

53A40 Other special differential geometries

Drăgilă, Pavel Die anholonome Mannigfaltigkeiten mit konstanter Krümmung. [Anholonomic manifolds with constant curvature] **90g:53020**

Erokhina, N. V. Differential geometry of filaments of the spaces $\overline{E}_n(\varepsilon)$ and $\overline{S}_n(\varepsilon)$. (Russian) **90k:53028**

Evdokimova, R. I. The canonical frame of a hypersurface in the space $\overline{B}_4^2$. (Russian) **90f:53027**

Gutsul, I. S. (*with* Makarov, V. S.) Noncomplete three-dimensional manifolds with a locally Lobachevskian metric. (Russian) **90b:53013**

Krivoruchko, G. V. Hyperdistribution in the elliptic space S_n. (Russian) **90k:53029**

Lebedeva, G. A. Geodesic submanifolds of a 2-family of lines in Sp_5. (Russian) (*see* **90c:53001**)

Makarov, V. S. *see* **Gutsul, I. S., 90b:53013**

Marina, E. V. Three-dimensional metric spaces of hyperplanar elements that admit groups of motions. (Russian) **90d:53023**

Rath, Wolfgang Kubische Regelflächen als Kreisbewegflächen des Flaggenraumes. [Cubic ruled surfaces as circular movable surfaces of the flag space] **90c:53038**

Shraĭner, E. G. Monosystems of Cartan images of elliptic spaces. (Russian) **90k:53030**

Tlupova, R. G. Curves and surfaces in a G-elliptic 6-space. (Russian) **90k:53031**

Vasenin, V. V. Strips of nonholonomic manifolds V_n^{n-1}. (Russian) (*see* **90c:53001**)

Yukhtina, T. I. The symplectic geometry of ruled surfaces. (Russian) **90m:53027**

Zlatanov, G. The geometry of nets in the space A_{2n} with an affine connection. (Russian) **90m:53028**

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Atanasyan, S. L. Some particular classes of congruences of straight lines in three-dimensional Galilean and pseudo-Galilean spaces. (Russian) **90k:53022**

Denisova, N. S. Some properties of ruled surfaces in a three-dimensional biquasi-elliptic space. (Russian) **90k:53023**

Jankovský, Zdeněk Zur Möbiusschen Geometrie und Kinematik in H^3. (Russian and Czech summaries) [On the Möbius geometry and kinematics in H^3] **90k:53017**

Lang, Johann ★ Einparametrige Zwangläufe des zweifach isotropen Raumes. (German) [One-parameter constrained motions of the doubly isotropic space] **90j:53012**

Minčić, Svetislav M. Frenet formulas for curves in a generalized Riemannian space. (Serbo-Croatian summary) **90i:53021**

Papantoniou, B. J. *see* **Tsagas, Gr., 90f:53023**

Savos'kina, I. I. The ruled geometry of the quasi-elliptic space S_n^1. (Russian) **90k:53026**

Schaal, Hermann Die affin invarianten rechten Winkel. [Affine invariant right angles] **90i:51027**

Strichartz, Robert S. Corrections to: "Sub-Riemannian geometry" [J. Differential Geom. 24 (1986), no. 2, 221–263; MR 88b:53055]. **90f:53081**

Strubecker, Karl Dichtetreue Geradenabbildungen der Ebene. [Density-preserving line mappings of the plane] **90a:53018**

Tsagas, Gr. (*with* Papantoniou, B. J.) On the rectilinear congruences of Lorentz manifold establishing an area preserving representation. **90f:53023**

Urbantke, H. On Pinl's representation of null curves in n dimensions. **90i:53078**

Vlasova, L. A. Real n-surfaces of a complex Hermitian Euclidean n-space. (Russian) **90k:53009**

Zhmurova, N. V. Surfaces in the Appell space of parabolic type. (Russian) **90k:53016**

53A45 Vector and tensor analysis

Bressan, Aldo Some chain rules for certain derivatives of double tensors depending on other such tensors and some point variables. I. On the pseudo-total derivative. (Italian summary) **90d:53024a**

— Some chain rules for certain derivatives of double tensors depending on other such tensors and some point variables. II. On the Lagrangian spatial derivative in relativity. **90d:53024b**

Gähler, Siegfried (*with* Żekanowski, Zbigniew) On curvature structures and projections. **90b:53014**

Gancarzewicz, Jacek (*with* Salgado, Modesto) Horizontal lifts of tensor fields and connections to the tangent bundle of higher order. **90f:53028**

Guo, Zhong Heng ★ Zhangliang. (Chinese) [Tensors] **90j:53016**

Salgado, Modesto *see* **Gancarzewicz, Jacek, 90f:53028**

Trenčevski, Kostadin Contravariant integration, line integrals. **90f:53029**

Xiong, Zhu Hua (*with* Zheng, Quan Shui) Canonical representations and degree of freedom formulae of orthogonal tensors in n-dimensional Euclidean space. **90g:53021**

Żekanowski, Zbigniew *see* **Gähler, Siegfried, 90b:53014**

Zheng, Quan Shui *see* **Xiong, Zhu Hua, 90g:53021**

Zund, J. D. Tensorial methods in classical differential geometry. I. Basic principles. **90d:53025**

— Tensorial methods in classical differential geometry. II. Basic surface tensors. **90d:53026**

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Ramírez, Rafael (*with* Serpa, Hernán) On Saint-Venant's equations. **90a:73028**

Serpa, Hernán *see* **Ramírez, Rafael, 90a:73028**

Shīpka, Ī. G. Properties of a fundamental solution of a fourth-order metaharmonic equation in a Riemannian space. (Ukrainian. Russian summary) (Not in MR)

53A50 Spinor analysis

Benn, I. M. (*with* Tucker, R. W.) SO$(r+2,r)$ pure spinors. **90b:53015**

— (*with* Tucker, R. W.) ★ An introduction to spinors and geometry with applications in physics. **90c:53039**

— (*with* Tucker, R. W.) High spin forms. **90j:53017**

— (*with* Tucker, R. W.) Representing spinors with differential forms. **90f:53030**

Crumeyrolle, A. The primitive idempotents of the Clifford algebras and the amorphic spinor fibre bundles. **90g:53022**

Deheuvels, René Une application des algèbres de Clifford. [An application of Clifford algebras] **90m:53029**

Frescura, F. A. M. Projective spinor geometry and prespace. **90c:53040**

Hasiewicz, Zbigniew (*with* Kwaśniewski, A. K.) An idea of retransmitted structures and its applications. (Polish summary) **90f:53031**

Hughston, L. P. Applications of Cartan spinors to differential geometry in higher dimensions. **90b:53016**

Kwaśniewski, A. K. *see* **Hasiewicz, Zbigniew, 90f:53031**

Tucker, R. W. *see* **Benn, I. M., 90b:53015; 90c:53039; 90f:53030** *and* **90j:53017**

Volkov, D. V. (*with* Zheltukhin, A. A.) Extension of the Penrose representation and its use to describe supersymmetric models. **90d:53027**

Zheltukhin, A. A. *see* **Volkov, D. V., 90d:53027**

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Brinis Udeschini, Elisa On the field equations of gravitational spinors. (Italian. English summary) **90m:53082**

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— (*with* Rigoli, M.) Cartan spinors, minimal surfaces and strings. (Italian and Russian summaries) **90d:53088**

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Imaeda, Kuninosuke *see* **Tachibana, H., 90j:81086**

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Pope, C. N. *see* **Isham, C. J.; et al., 90d:53090**

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Rawnsley, J. H. Self-duality conditions satisfied by the spin connections of spheres. **90f:58034**

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Warner, N. P. *see* **Isham, C. J.; et al., 90d:53090**

53A55 Differential invariants (local theory), geometric objects

Boularas, Driss (*with* Dali, Dahira) Sur les bases de concomitants centro-affines des systèmes différentiels plans. (English summary) [On the bases of centro-affine concomitants of plane differential systems] **90a:53025**

— (*with* Demmad, Kamel) Concomitants affines des systèmes différentiels plans. (English summary) [Affine concomitants of plane differential systems] **90a:53026**

Dali, Dahira *see* **Boularas, Driss, 90a:53025**

Demmad, Kamel *see* **Boularas, Driss, 90a:53026**

Polyakov, N. D. Lift of a distribution of tangent elements. (Russian) **90h:53019**

Prélat, Daniel On scalar concomitants of tensor fields. **90c:53041**

Ryabushko, V. A. A tri-orthogonal system of vector fields in a three-dimensional pseudo-Euclidean space. (Russian. English summary) **90e:53023**

Rybicki, Tomasz On the existence of polynomial connection valued concomitants. **90b:53017**

Scott, Richard A. Differential invariants of curves in projective space. **90b:53018**

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Egorov, A. I. Maximally moving metric spaces of hyperplane elements. (Russian) **90e:53027**

Mikulski, W. M. Continuity of liftings. (Russian and Czech summaries) **90b:58009**

Moiseev, S. A. Curves in a projective space with a nonplanar absolute of special form. (Russian) **90f:53018**

Schwarz, Binyamin Semi-invariants of matrix differential systems. **90a:34087**

Švec, Alois Surfaces in general affine space. **90c:53029**

— Differential geometry of surfaces. **90c:53030**

— Affine differential geometry of surfaces. **90m:53022**

Tolstopyatov, V. P. A gradient vector field that is orthogonal to a cross section. (Russian) **90f:53008**

Trautman, Andrzej *see* **Budinich, Paolo, 90g:15043**

53A60 Geometry of webs [see also 14C21, 20N05]

Akivis, M. A. (*with* Shelekhov, A. M.) On subwebs of 3-webs and subalgebras of local W_k-algebras. **90d:53028**

— (*with* Shelekhov, A. M.) Fourth-order alternators of a local analytic loop and three-webs of multidimensional surfaces. (Russian) **90f:53032**

Ferapontov, E. V. Weakly nonlinear semi-Hamiltonian systems of three differential equations from the point of view of web theory. (Russian. English summary) **90a:53027**

Goldberg, Vladislav V. ★ Theory of multicodimensional $(n+1)$-webs. **90h:53021**

Kostyrev, G. E. Webs and noninvolutive distributions. (Russian) **90k:53032**

Little, John B. On webs of maximum rank. **90g:53023**
Nagy, Péter T. On complete group 3-webs and 3-nets. **90g:53024**
Shelekhov, A. M. The g-structure associated with a multidimensional hexagonal 3-web is closed. **90h:53022**
— *see also* **Akivis, M. A., 90d:53028** *and* **90f:53032**
Zlatanov, G. Nets in an n-dimensional Weyl space. (Russian) **90b:53019**

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Ferapontov, E. V. Systems of three differential equations of hydrodynamic type with a hexagonal 3-web of characteristics on solutions. **90k:35157**
Smith, J. D. H. Multilinear algebras and Lie's theorem for formal n-loops. **90e:17007**

53A99 None of the above, but in this section

Egorov, A. I. Maximally moving metric spaces of vector elements. (Russian) **90k:53033**
Savushkina, G. M. Special nets on the graph of the mapping $f:(\Omega\subset E_n)\to(\overline{\Omega}\subset\overline{E}_n)$. (Russian) **90k:53034**
Suvorov, S. F. Differential geometry of a two-parameter family of surfaces on a three-dimensional manifold. (Russian) (*see* **90m:00019**)

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Firmanty, Małgorzata Generalized path spaces. I. **90k:58006**

53Bxx Local differential geometry

53B05 Linear and affine connections

Akmatov, B. Connections in structural distributions of an induced $(f\xi\eta\rho)$-structure in $M_n(F)$. (Russian) **90f:53033**
Barndorff-Nielsen, O. E. Differential geometry and statistics: some mathematical aspects. **90b:53020**
Boer, Magdalena *see* **Enghiş, P., 90k:53036** *and* **90m:53030**
Cheshkova, M. A. The deformation algebra of a space with affine connection. (Russian) **90f:53034**
Chung, Kyung Tae (*with* So, Keum Sook; Lee, Jong Woo) Geometry of the submanifolds of SEX_n. I. The C-nonholonomic frame of reference. **90j:53018**
— (*with* Lee, Jong Woo) Geometry of the submanifolds of SEX_n. II. The generalized fundamental equations for the hypersubmanifold of SEX_n. **90j:53019**
Codău, N. Almost projective invariants of a manifold (M, A). (Romanian) **90g:53025**
Dzhincharadze, T. R. Symmetric tangent bundles. (Russian. English and Georgian summaries) **90k:53035**
Enghiş, P. (*with* Boer, Magdalena) Spaces A_n with generalized recurrent symmetric affine connection. **90m:53030**
— (*with* Boer, Magdalena) Generalized recurrency in spaces with affine connection. (Romanian summary) **90k:53036**
Konar, A. Riemannian manifold that admits a type of semi-symmetric metric connection. **90e:53024**
Lee, Jong Woo *see* **Chung, Kyung Tae; et al., 90j:53018** *and* **90j:53019**
Li, Quan Sheng An exposition of Levi-Civita parallel transport. (Chinese. English summary) (Not in MR)
Liang, Yi Xing On semisymmetric, metric-recurrent connections. (Chinese. English summary) **90c:53042**
Maralabhavi, Y. B. Some results on parallel translation. **90i:53016**
Nicolescu, Liviu (*with* Pripoae, G.) Transformations presque (F,ξ)-sous-projectives sur des variétés presque complexes. [Almost (F,ξ)-subprojective transformations on almost complex manifolds] **90c:53043**
Nikitin, N. D. Abelian groups of motions in spaces of linear elements of truncated affine semi-integrable connection. (Russian) **90m:53031**
Pavlov, E. V. Point CH-transformations. (Russian) **90g:53026**
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Reshetnyak, Yu. G. The evolute of a nonregular curve in a space with affine connection. **90k:53037**
Rybnikov, A. K. A special type of second-order differential-geometric structures (T-connections). **90a:53028**
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Singh, Ram Narayan *see* **Yadav, B. P., 90h:53023**
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Stavre, Petre The d-linear connections. **90j:53020**
Trenčevski, Kostadin A formula for the kth covariant derivative. **90i:53017**
Yadav, B. P. (*with* Singh, Ram Narayan) Horizontal lifts of tensor fields to the complex cotangent bundle. **90h:53023**
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de Azeredo Campos, R. (*with* Letelier, P. S.) Curvature copies in metric and semi-metric manifolds. **90f:53055**
Dillen, Franki Equivalence theorems in affine differential geometry. **90j:53009**
Hrimiuc, Dragoş The generalized Legendre transformation. **90k:58011**
Kabanov, N. I. The geometric theory of Carathéodory transforms in an intrinsic Lagrange problem for an ordinary integral. II. (Russian) **90h:58024**
Kim, Hae Yong *see* **Kim, Hyong Sen, 90i:53019**
Kim, Hyong Sen (*with* Kim, Hae Yong) Infinitesimal conformal transformations in geodesic metric connection manifold. (Korean. English summary) **90i:53019**
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Losik, M. V. The Vagner composite manifold. Connection and curvature forms. (Russian) **90d:58011**
Nomizu, Katsumi (*with* Pinkall, Ulrich) Cayley surfaces in affine differential geometry. **90j:53010**
Pinkall, Ulrich *see* **Nomizu, Katsumi, 90j:53010**
Podestà, Fabio Affine transformations in affine differential geometry. **90j:53011**
Rastogi, Suresh Chandra Semi-geodesic correspondence in a Riemannian space. II. **90f:53041**
Teodorescu, I. D. Espaces de Riemann à métrique linéaire. [Riemannian spaces with linear metric] **90e:53033**
Trenčevski, Kostadin Contravariant integration, line integrals. **90f:53029**
Zlatanov, G. The geometry of nets in the space A_{2n} with an affine connection. (Russian) **90m:53028**

53B10 Projective connections

Kulagina, T. V. Four-dimensional spaces with projective connection with the groups of motions G_4. (Russian) **90a:53029**
Shevchenko, Yu. I. Cartan's projective connection that has been induced on a surface. (Russian) **90f:53036**
Stolyarov, A. V. A dual theory of a regular hyperband $H_m\subset P_{n,n}$. (Russian) **90d:53030**
Tadeev, P. A. Fundamental distribution objects on a hypersurface in a space with projective connection. (Russian) **90f:53037**

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Gong, Jia Xiang Projective semisymmetric Berwald connections on Finsler spaces. (Chinese. English summary) **90m:53036**
Lovkov, A. A. Three-dimensional spaces of paths of projective connection with six-term unsolvable groups of motions. (Russian) **90e:53036**

53B15 Other connections

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Enghiş, P. (*with* Moţ, G.) Remarks on spaces with semi-symmetric connection. **90e:53025**
— Espaces K_n^* doués d'une D-E connexion. (Romanian summary) [K_n^*-spaces equipped with a D-E-connection] **90g:53027**
— Generalized T-recurrent semi-symmetric connections. (Romanian summary) **90g:53028**
Ivanov, Stefan P. Symmetric quarter metric connections. (Bulgarian summary) **90b:53021**
— Semi-symmetric quarter metric connections and semi-symmetric Weyl connections. (Bulgarian summary) **90k:53038**
Krawczyk, Jerzy On some projectively recurrent spaces. **90k:53039**
Li, Jian Hua^1 On the quarter-symmetric metric connections in Riemannian manifolds. (Chinese. English summary) **90c:53044**
Maralabhavi, Y. B. Submanifolds of Riemannian manifolds. **90i:53018**
Moţ, G. *see* **Enghiş, P., 90e:53025**
Munteanu, Gheorghe On normal d-connections. **90j:53022**
Obădeanu, V. Some remarks on M-connections. **90c:53045**
— Pairs of linear quasi-connections and their deformations. **90f:53038**
Simionescu, Sorin *see* **Smaranda, D., 90f:53039**
Smaranda, D. (*with* Simionescu, Sorin) On some semi-symmetric connections. **90f:53039**

Items with secondary classifications in 53B15

Anastasiei, M. Nonlinear connections in Hamilton spaces. **90j:53034**
Atanasiu, Gh. The invariant expression of Hamilton geometry. **90m:53034**
Chakmazyan, A. V. Normal connection in the geometry of framed submanifolds of an affine space. (Russian) **90k:53043**
Filonenko, L. A quadratic hyperstrip and normal connections of a submanifold in a conformal space. (Russian. English summary) **90f:53024**
Miron, Radu The geometry of Hamilton spaces. **90j:53042**

53B20 Local Riemannian geometry

Amur, Krishna (*with* Venkatesh, T.) On projectively related spaces. **90j:53023**
Boroica, Gh. *see* **Enghiş, P., 90j:53026**
Chaki, M. C. (*with* Kumar, Gouri) On semi-decomposable generalised conformally 2-recurrent Riemannian spaces. **90e:53026**
— (*with* De, U. C.) On pseudo symmetric spaces. **90j:53024**
Collinson, C. D. A comment on the integrability conditions of the conformal Killing equation. **90j:53025**
De, U. C. *see* **Chaki, M. C., 90j:53024**
Egorov, A. I. Maximally moving metric spaces of hyperplane elements. (Russian) **90e:53027**
Enghiş, P. (*with* Boroica, Gh.) On the generalized D-recurrents spaces. **90j:53026**
— (*with* Mărginean, S.) Relations between Riemannian spaces with birecurrent tensors. **90k:53040**
— (*with* Mărginean, S.) Birecurrency problems in Riemannian spaces. (Romanian summary) **90k:53041**
Florea, Dana Riemannian spaces in geodesic correspondence. (Romanian. French summary) **90b:53022**
Iliev, B. Z. Consistency between metrics and linear transports along curves. **90f:53040**
Kim, Hae Yong On the relation of projective, conformal and concircular curvature tensors. (Korean. English summary) **90j:53027**
— *see also* **Kim, Hyong Sen, 90i:53019**
Kim, Hyong Sen (*with* Kim, Hae Yong) Infinitesimal conformal transformations in geodesic metric connection manifold. (Korean. English summary) **90i:53019**
Kiosak, V. A. (*with* Mikesh, Ĭ.) Geodesic mappings and projective transformations of Riemannian spaces. (Russian) **90c:53046**
Kleczewska, Halina Generalized harmonic secants in special types of Riemannian fiber spaces. (Russian) **90g:53029**
Kumar, Gouri *see* **Chaki, M. C., 90e:53026**
Li, Zhong Lin On quasi-Einsteinian manifolds. (Chinese. English summary) **90e:53028**
Luo, Chong Shan Concircular transformations in Riemannian spaces with recurrence conditions. (Chinese. English summary) **90j:53028**

Mărginean, S. *see* **Enghiş, P., 90k:53040** *and* **90k:53041**

Mihai, M. (*with* Smaranda, D.) Riemannian subprojective manifolds of $(n-2)$ order. **90j:53029**

Mikesh, Ĭ. Letter to the editors: "Estimates for the orders of groups of projective transformations of Riemannian spaces" [Mat. Zametki **43** (1988), no. 2, 256–262; MR 89h:53055]. **90j:53030**

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Min, Yong Nam On properties of almost geodesic mapping of Riemann-Cartan space. (Korean. English summary) **90i:53020**

Minčić, Svetislav M. Frenet formulas for curves in a generalized Riemannian space. (Serbo-Croatian summary) **90i:53021**

Mocanu, A. L. Les variétés à courbure quasi-constante de type Vranceanu. [Manifolds with quasiconstant curvature of Vranceanu type] **90a:53030**

Niţescu, Cătălina On the divergence of the Ricci tensor. (Romanian summary) **90g:53030**

Prasad, C. M. Conharmonic Bianchi and Veblen identities. **90e:53029**

Rahman, Mohammad S. Projective symmetric Riemannian manifolds with some recurrence properties. **90j:53031**

Rai, S. P. (*with* Rai, V. K.) Gauss and Weingarten equation for the cross-section of the frame bundle EM. **90c:53047**

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Rastogi, Suresh Chandra Semi-geodesic correspondence in a Riemannian space. II. **90f:53041**

Rizza, Giovanni Battista On the bisectional curvature of manifolds. (Italian. English summary) **90j:53032**

— Geometric meaning of some equalities concerning the curvature tensor. (Italian summary) **90e:53030**

Robinson, D. C. A first-order formalism for metric curvature calculations. **90e:53031**

Shandra, I. G. Horizontally equidistant fibre spaces. **90e:53032**

Smaranda, D. *see* **Mihai, M., 90j:53029**

Sobchuk, V. S. Intrinsic almost geodesic mappings. (Russian) **90i:53022**

Strichartz, Robert S. Linear algebra of curvature tensors and their covariant derivatives. **90c:53048**

Teodorescu, I. D. Espaces de Riemann à métrique linéaire. [Riemannian spaces with linear metric] **90e:53033**

Venkatesh, T. *see* **Amur, Krishna, 90j:53023**

Yawata, Makoto On a certain generalized curvature tensor field invariant under a conformal change of metric. **90f:53042a**

— On the curvature identities satisfied by four-dimensional Riemannian manifolds. **90f:53042b**

Yu, Yan Lin Volume of geodesic balls. **90c:53049**

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Boer, Magdalena *see* **Enghiş, P., 90k:53036**

Borisenko, A. A. (*with* Ushakov, V. G.) A characteristic property of multidimensional cylindrical surfaces. (Russian) **90c:53011**

Enghiş, P. (*with* Boer, Magdalena) Generalized recurrency in spaces with affine connection. (Romanian summary) **90k:53036**

Gähler, Siegfried (*with* Żekanowski, Zbigniew) On curvature structures and projections. **90b:53014**

Krawczyk, Jerzy On some projectively recurrent spaces. **90k:53039**

Shadyev, Kh. Sh. Infinitesimal homotheties in the tangent bundle of a Riemannian manifold. (Russian) **90k:53042**

Ushakov, V. G. *see* **Borisenko, A. A., 90c:53011**

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53B21 Methods of Riemannian geometry

Foster, Billy Lee Higher derivatives in geometry and physics. **90f:53043**

Rodionov, A. Ya. (*with* Taranov, A. Yu.) Recurrence relations for covariant derivatives of bilocal functions on a Riemannian manifold. **90c:53050**

Shadyev, Kh. Sh. Infinitesimal homotheties in the tangent bundle of a Riemannian manifold. (Russian) **90k:53042**

Taranov, A. Yu. *see* **Rodionov, A. Ya., 90c:53050**

Items with secondary classifications in 53B21

Rahman, Mohammad S. Projective symmetric Riemannian manifolds with some recurrence properties. **90j:53031**

53B25 Local submanifolds [see also 53C40]

Chakmazyan, A. V. An anti-invariant submanifold with a parallel image of a tangent bundle in a Kähler space. **90d:53031**

— Normal connection in the geometry of framed submanifolds of an affine space. (Russian) **90k:53043**

— A class of anti-invariant submanifolds in a flat Kählerian space. (Russian) **90g:53031**

Deszcz, R. (*with* Ewert-Krzemieniewski, Stanisław) Notes on manifolds admitting totally umbilical hypersurfaces. **90c:53051**

Djorić, M. (*with* Petrović-Torgašev, M.; Verstraelen, L.) Conditions on the conharmonic curvature tensor of Kaehler hypersurfaces in complex space forms. **90c:53052**

Dong, Tai Heng Submanifolds with flat normal bundle in locally symmetric conformally flat Riemannian manifolds. (Chinese. English summary) **90i:53023**

Ewert-Krzemieniewski, Stanisław *see* **Deszcz, R., 90c:53051**

Fomenko, V. T. *see* **Zubkov, A. N., 90c:53054**

Husain, S. I. *see* **Shahid, M. Hasan, 90a:53031**

Kim, Byung Hak Remarks on submanifolds of codimension 2 of an even-dimensional Euclidean space. **90d:53032**

Kiotina, G. V. Surfaces on a manifold with biflag connection. (Russian) **90e:53034**

Kobayashi, Kozo Fundamental equations for submanifolds. **90h:53024**

Noronha, Maria Helena Conformally flat immersions and flatness of the normal connection. **90b:53023**

Opozda, Barbara Generic submanifolds in almost Hermitian manifolds. **90b:53024**

Petrović-Torgašev, M. *see* **Djorić, M.; et al., 90c:53052**

Ray, Ashok Kumar On shape 2-recurrent hypersurfaces of a Euclidian space. **90m:53032**

Shahid, M. Hasan (*with* Husain, S. I.) Generic submanifolds of a locally conformal Kaehler manifold. **90a:53031**

Väljas, M. Dupin-Mannheim submanifolds and Clifford cones in E_{n+m}. (Russian. English summary) **90c:53053**

Verstraelen, L. *see* **Djorić, M.; et al., 90c:53052**

Virovere, T. The polar plane of a Cartan submanifold M_m with a flat normal connection in E_{2m+1}. (Russian. English summary) **90b:53025**

— Geometry of some special Cartan submanifolds M_m with a flat normal connection in E_{2m+1}. (Russian. English summary) **90b:53026**

— Higher-order evolutes of a normally flat Cartan submanifold M_m in E_n. (Russian. English and Estonian summaries) **90k:53044**

Zubkov, A. N. (*with* Fomenko, V. T.) Transformations of R-surfaces of Euclidean space with preservation of their Grassmann image. **90c:53054**

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Chung, Kyung Tae (*with* So, Keum Sook; Lee, Jong Woo) Geometry of the submanifolds of SEX_n. I. The C-nonholonomic frame of reference. **90j:53018**

— (*with* Lee, Jong Woo) Geometry of the submanifolds of SEX_n. II. The generalized fundamental equations for the hypersubmanifold of SEX_n. **90j:53019**

Lee, Jong Woo *see* **Chung, Kyung Tae; et al., 90j:53018** *and* **90j:53019**

Liang, Yi Xing On semisymmetric, metric-recurrent connections. (Chinese. English summary) **90c:53042**

Lumiste, Ü. Decomposition of semi-symmetric submanifolds. (Russian summary) **90d:53064**

— Classification of two-codimensional semi-symmetric submanifolds. (Russian summary) **90d:53065**

Maralabhavi, Y. B. Submanifolds of Riemannian manifolds. **90i:53018**

Mills, Harry S. D. (*with* Vernon, Micheal H.) Using Macsyma to calculate the extrinsic geometry of a tube in a Riemannian manifold. **90e:53001**

Polyakov, N. D. Lift of a distribution of tangent elements. (Russian) **90h:53019**

So, Keum Sook *see* **Chung, Kyung Tae; et al., 90j:53018**

Vernon, Micheal H. *see* **Mills, Harry S. D., 90e:53001**

53B30 Lorentz metrics, indefinite metrics

Aminova, A. V. Lie algebras of projective motions of h-spaces of Lorentz signature. (Russian) **90h:53025**

Kamran, Niky Killing-Yano tensors and their role in separation of variables. **90i:53024**

Matsumoto, Koji (*with* Mihai, I.) On a certain transformation in a Lorentzian para-Sasakian manifold. **90g:53032**

Mihai, I. *see* **Matsumoto, Koji, 90g:53032**

Ryabushko, V. A. Tri-orthogonal systems of minimal vector fields in a pseudo-Euclidean space. (Russian. English summary) **90k:53045**

Smaranda, D. Pseudo-Riemannian recurrent manifolds with almost constant curvature. **90h:53026**

Urbantke, H. Local differential geometry of null curves in conformally flat space-time. **90k:53046**

Items with secondary classifications in 53B30

Bartnik, Robert Isolated singular points of Lorentzian mean curvature hypersurfaces. **90k:53010**

Garcia de Andrade, L. C. Recurrent Riemann-Cartan spacetimes. **90m:53039**

Papantoniou, B. J. On the rectilinear congruence of Lorentz manifold $[\mathbf{R}^3,(+,+,-)]$ establishing a conformal mapping between its focal surfaces. **90a:53024**

53B35 Hermitian and Kählerian structures [see also 32Cxx]

Cruceanu, V. Sur la théorie des courbes réelles dans les varietés kählérienes. [A theory of real curves in Kähler manifolds] **90i:53025**

Khopteriev, Khristo H-Kählerian manifold with a structure of anticyclic algebra of the fourth order. (Bulgarian. English and Russian summaries) **90c:53055**

Leysen, J. (*with* Petrović-Torgašev, M.; Verstraelen, L.) Some curvature conditions in Bochner-Kaehler manifolds. **90b:53027**

Maralabhavi, Y. B. On a Kählerian manifold with the vanishing tensor field S of type $(0,3)$. **90b:53028**

Petrović-Torgašev, M. *see* **Leysen, J.; et al., 90b:53027**

Singh, A. K. On relative associate curvature of a vector field in Kaehlerian spaces. **90g:53033**

Verstraelen, L. *see* **Leysen, J.; et al., 90b:53027**

Items with secondary classifications in 53B35

Chakmazyan, A. V. An anti-invariant submanifold with a parallel image of a tangent bundle in a Kähler space. **90d:53031**

— A class of anti-invariant submanifolds in a flat Kählerian space. (Russian) **90g:53031**

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Piu, M. Paola Sur une caractérisation de la sphère S^{2n+1} en termes de géométrie riemannienne de contact. (English summary) [A characterization of the sphere S^{2n+1} in terms of contact Riemannian geometry] **90k:53094**
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Rovenskiĭ, V. Yu. The metric structure of ruled and parabolic surfaces in S^m and CP^m. **90m:53070**
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Sierra, J. M. Semi-invariant submanifolds of conformal Kaehler manifolds. **90c:53147**
Singh, Hukum Closest point of the cut locus to submanifold. **90f:53096**
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— (*with* Vanhecke, Lieven) Isometric reflections with respect to submanifolds. **90j:53074**
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Vernon, Micheal H. Some families of isoparametric hypersurfaces and rigidity in a compl hyperbolic space. **90d:53069**
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— *see also* **Leysen, J.; et al., 90c:53138**
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— *see also* **Chen, Bang-Yen, 90e:53069**
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— (*with* Magid, M. A.) Indefinite rigidity of complex submanifolds and maximal surfaces. 90g:53075
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Guo, Xiao Ying Totally real minimal submanifolds with positive curvature. (Chinese) 90e:53072
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Houh, Chorng Shi On Chen surfaces in a Minkowski space time. 90c:53165
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Menninga, Nadine L. Immersions of positively curved manifolds into manifolds with curvature bounded above. 90g:53071
Mihai, I. Almost CR-submanifolds of a manifold with a Sasakian 3-structure. 90a:53054
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Ornea, Liviu Complex hypersurfaces with planar geodesics in generalized Hopf manifolds. 90g:53072
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53C42 Immersions (minimal, prescribed curvature, tight, etc.) [see also 49F10, 53A10, 57R40, 57R42]

Aminov, Yu. A. Isometric immersions of domains of n-dimensional Lobachevskiĭ space into Euclidean spaces with a flat normal connection. A model of a gauge field. 90k:53095
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— (*with* Woodward, L. M.) On immersions of surfaces into space forms. 90c:53149
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— (*with* Wang, Yuan Da) Complete Riemannian manifold minimally immersed in a unit sphere $S^{n+p}(1)$. 90d:53071
Chern, Shiing Shen *see* **Cecil, Thomas E., 90i:53079**
Chi, Quo-Shin (*with* Zheng, Yunbo) Rigidity of pseudo-holomorphic curves of constant curvature in Grassmann manifolds. 90m:53072
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Delanoë, Ph. Réalisations globalement régulières de disques strictement convexes dans les espaces d'Euclide et de Minkowski par la méthode de Weingarten. (English summary) [Globally smooth realizations, by the Weingarten method, of strictly convex disks in Euclidean and Minkowski spaces] 90f:53097
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— Dupin hypersurfaces and a Lie invariant. **90i:53083**
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Baikoussis, Christos (*with* Koufogiorgos, Themis) On convex hypersurfaces in a space form. **90c:53130**
Bejan, Cornelia-Livia On harmonic maps between semi-Riemannian manifolds. **90j:58033**
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— (*with* Itokawa, Yoe) On the sectional curvature of compact hypersurfaces. **90h:53062**
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Lin, Jun Min (*with* Xia, Chang Yu) Global pinching theorems for even-dimensional minimal submanifolds in the unit spheres. **90i:53048**
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Zhang, Shao Ping On complete minimal immersion $\chi : \mathbf{RP}^2 - \{a, b\} \to \mathbf{R}^3$ with total curvature -10π. **90d:53016**
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Fomenko, V. T. *see* **Kolegaeva, E. M., 90g:53074**
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Ivanova-Karatopraklieva, I. (*with* Sabitov, I. Kh.) Second-order infinitesimal bendings of surfaces of revolution with flattening at the pole. **90d:53075**
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Labourie, François Existence et compacité d'immersions isométriques elliptiques. [Existence and compactness of elliptic isometric immersions] **90k:53100**
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Nikolaev, I. G. Isotropic metric spaces. **90i:53085**
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Usmanov, Z. D. Infinitesimal bendings of surfaces of positive curvature with a point of flattening. (Russian) **90b:53073**

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54A25 Cardinality properties (discrete subsets, weight, etc.), ultrafilters, etc. [see also 03Exx, 04A30]

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54A35 Consistency and independence results [see also 03E35]

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54A40 Fuzzy topology [see also 03E72]

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— *see also* **Lowen, Robert; et al., 90i:54015**
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— L-fuzzy perfect mappings. (Chinese) (Not in MR)
— L-fuzzy perfect mappings. (Chinese. English summary) **90m:54011**
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Liu, Xiao Shi The interior operator, regularity and normality of the pointwise topology on a completely distributive lattice. (Chinese. English summary) **90i:06008**
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Zhang, Shi Sheng The coincidence degree and coincidence theorem for fuzzy mappings. (Chinese) **90c:47107**
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Pultr, A. Categories of diametric frames. **90a:54014**
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Zhu, Jing Feng Families of semiopen sets and their accompanied topologies. **90e:54014**

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McCartan, S. D. Topological equivalents of the axiom of choice. **90d:04004**
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Niefield, Susan B. (*with* Rosenthal, Kimmo I.) Componental nuclei. **90a:06013**
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54Bxx Basic constructions

54B05 Subspaces

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Engelking, Ryszard An elementary proof of Noble's theorem on normality of powers. **90a:54015**
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— The influence of a small cardinal on the product of a Lindelöf space and the irrationals. **90m:54014**
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Wang, Tie Ping A result on normality of product spaces. (Chinese. English summary) **90m:54030**
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54B15 Quotient spaces, decompositions

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— On the property of Kelley in the hyperspace and Whitney continua. **90b:54006**
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Kennedy, Judy Compactifying the space of homeomorphisms. **90f:54062**
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54B25 Sums, inverse limits

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— (*with* Rubin, Leonard R.) Approximate inverse systems of compacta and covering dimension. **90f:54058**
— (*with* Rubin, Leonard R.) Cell-like mappings and nonmetrizable compacta of finite cohomological dimension. **90a:54095**
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Paxia, Giuseppe (*with* Sergio, Irene) On the connectedness of some topological spaces. (French summary) **90d:54040**
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54B30 Categorical methods [see also 18B30]

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Mirzakhanyan, R. È. The infinite iteration of the hyperspace functor. **90f:54020**
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— How many initial completions does a monotopological category have? **90i:18002**
Alekseĭ, S. F. The existence of free topological modules in a class of modules that are bounded. (Russian) **90b:16045**
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Coulon, Josette (*with* Coulon, Jean-Louis) The spectrum of a separated presheaf and the relation between totally fuzzy subsets and fuzzy subsets; application to fuzzy topology. **90h:18005**
Dodson, C. T. J. ★ Categories, bundles and spacetime topology. **90c:53164**
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Isbell, J. (*with* Kříž, I.; Pultr, A.; Rosický, J.) Remarks on localic groups. **90f:18009**
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— (*with* Srivastava, Arun Kumar^2) FTS$_0$: the epireflective hull of the Sierpiński object in FTS. **90d:54015**
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Savchenko, A. G. A criterion for isomorphism of the finite-power functor and the power functor. (Russian) **90m:18008**
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Stramaccia, Luciano Homotopy preserving functors. (French summary) **90d:55011**
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— (*with* Adámek, Jiří; Rosický, J.) Topological reflections revisited. **90e:18004**
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54B35 Spectra

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Tkachenko, M. G. Pseudocompact topological groups and their properties. **90i:22002**

54B40 Presheaves and sheaves [see also 18F20]

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Pillay, A. Sheaves of continuous definable functions. **90j:03071**

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Ganster, M. On the questions of Jankovic, Reilly and Vamanamurthy. **90i:54026**
Johnstone, Peter T. (*with* Sun, Shu Hao) Weak products and Hausdorff locales. **90a:54026**
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Bandlow, Ingo Mappings that are co-absolute to a projection that is parallel to the Cantor perfect set. (Russian) **90b:54008**
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54Cxx Maps and general types of spaces defined by maps

54C05 Continuous maps

Baggs, Ivan A regular space on which every real-valued function with a closed graph is constant. **90j:54008**
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Cornea, Octav Weak discontinuities and discrete approximations. **90e:54020**
Cristea, Mihai Some conditions for continuity. **90d:54019**
van Douwen, Eric K. An easier superrigid countable T_1-space. **90k:54017**
Gal, S. G. (*with* Muntean, Ioan) Dini theorems for sequences which satisfy a generalized Alexandrov condition. **90f:54021**
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Tong, Jing Cheng On decomposition of continuity in topological spaces. **90j:54009**
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Ewert, Janina (*with* Neubrunn, Tibor) On quasi-continuous multivalued maps. **90i:54049**
Kvanchilashvili, M. T. Čech homology groups and normality in the light of discreteness in the sense of P. S. Aleksandrov. (Russian. English summary) **90j:55008**
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54C08 Connectivity maps, semicontinuous maps, etc.

Bânzaru, T. (*with* Crivăţ, N.) Characterization of the continuity for pointwise limit of multifunction nets. (Romanian summary) **90f:54024**
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54C25 Imbedding

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54C35 Function spaces [see also 58D15]

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54C40 $C(X)$; algebraic techniques (ideals, etc.) [see also 46J10]

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Vechtomov, E. M. Rings of continuous functions with values in topological skew fields. (Russian) **90a:54049**
Wajch, Eliza Compactifications and L-separation. **90a:54050**
Zakharov, Valeriĭ Konstantinovich On functions connected with sequential absolute, Cantor completion and classical ring of quotients. **90e:54035**

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— (*with* Okunev, O. G.; Pestoff, V. G.) Free topological groups over metrizable spaces. **90h:22002**
Caterino, A. (*with* Vipera, M. C.) Weight of a compactification and generating sets of functions. **90b:54014**
Gutman, J. On a problem of G.-C. Rota. (Russian. English summary) **90m:06026**
Hermida Alonso, José Ángel On finitely generated flat modules. (Spanish. English summary) **90a:13024**
Kaufman, Robert P. Metric spaces and ideals of functions. **90m:46043**
Lawvere, F. William Qualitative distinctions between some toposes of generalized graphs. **90g:18005**

Li, Wu Lipschitz continuous metric selections in $C_0(T)$. **90k:41040**
Okunev, O. G. *see* **Arkhangel′skiĭ, A. V.; et al., 90h:22002**
Páter, Z. Topological algebras of functions. **90m:46091**
Pestoff, V. G. *see* **Arkhangel′skiĭ, A. V.; et al., 90h:22002**
Vipera, M. C. *see* **Caterino, A., 90b:54014**
Wajch, Eliza Complete rings of functions and Wallman-Frink compactifications. **90d:54055**

54C45 C- and C^*-imbedding

Items with secondary classifications in 54C45

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Edelstein, Michael Embeddings into Banach spaces. **90m:46031**

54C50 Zero sets, Baire sets and functions [see also 26A21]

Kharazishvili, A. B. Borel mappings of completely nonperfect sets. (Russian. English and Georgian summaries) **90k:54025**
Marciszewski, Witold A remark on the space of functions of the first Baire class. (Russian summary) **90d:54035**
Pol, Elżbieta Characterizing strong countable-dimensionality in terms of Baire category. **90g:54010**

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Baggs, Ivan A regular space on which every real-valued function with a closed graph is constant. **90j:54008**
— Nowhere dense sets and real-valued functions with closed graphs. **90a:54041**
Kechris, Alexander S. (*with* Louveau, Alain) A classification of Baire class 1 functions. **90f:26005**
Kucia, Anna (*with* Nowak, Andrzej S.) On Baire approximations of normal integrands. **90k:28011**
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Ohta, Haruto (*with* Tamano, Ken-ichi) Topological spaces whose Baire measure admits a regular Borel extension. **90d:28016**
Revalski, J. P. An equivalence relation between optimization problems connected with the well-posedness. **90c:90239**
Tamano, Ken-ichi *see* **Ohta, Haruto, 90d:28016**

54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [see also 54F40, 55M15]

Bogatyĭ, S. A. (*with* Vylov, V. M.) The weight of compact retracts. **90e:54036**
Patkowska, H. On $\frac{1}{2}$-homogeneous ANR-spaces. **90i:54046**
Sanjurjo, José M. R. On mutational deformation retracts. **90f:54028**
Vylov, V. M. *see* **Bogatyĭ, S. A., 90e:54036**

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Chigogidze, A. Ch. Trivial bundles and near-homeomorphisms. **90f:55026**
— (*with* Valov, V.) Universal maps and surjective characterizations of completely metrizable LC^n-spaces. **90k:54040**
Dranishnikov, A. N. Homological dimension theory. **90e:55003**
Fedorchuk, V. V. Multivalued retractions and characterizations of n-soft mappings. (Russian) **90i:54034**
van Mill, Jan ★ Infinite-dimensional topology. **90a:57025**
Miwa, Takuo Linear topological spaces and simplicial complexes with the locally convex topology. **90e:46003**
Nguyen To Nhu The group of measure preserving transformations of the unit interval is an absolute retract. **90m:28024**
Toruńczyk, H. (*with* West, James) Fibrations and bundles with Hilbert cube manifold fibers. **90a:57026**
Valov, V. *see* **Chigogidze, A. Ch., 90k:54040**
West, James *see* **Toruńczyk, H., 90a:57026**

54C56 Shape theory [See mainly 55P55, 57N25]

Brechner, B. L. (*with* Mayer, J. C.; Tymchatyn, E. D.) Inaccessibility, essential maps, and shape theory. **90f:54029**
Cordier, J.-M. (*with* Porter, Timothy) ★ Shape theory. **90f:54030**
Gevorkyan, P. S. Majorants for G-movable compact spaces. **90f:54031**
Mayer, J. C. *see* **Brechner, B. L.; et al., 90f:54029**
Porter, Timothy *see* **Cordier, J.-M., 90f:54030**
Tymchatyn, E. D. *see* **Brechner, B. L.; et al., 90f:54029**

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Chigogidze, A. Ch. n-shapes and n-cohomotopy groups of compacta. **90f:54056**
Mrozik, Peter Continua that are shape-equivalent but not UV^1-equivalent. **90c:55008**
Olędzki, Juliusz On symmetric products. **90a:54023**

54C60 Set-valued maps [see also 26E25, 28B20]

Baĭdosov, V. A. Mappings that are conjugate to multivalued mappings of topological spaces, and their application to dynamical games. **90a:54051**
Baláž, Vladimír *see* **Holá, Ľubica; et al., 90i:54050**
Bânzaru, T. (*with* Crivăţ, N.) On pointwise convergence and topological convergence for multifunction nets. **90e:54037**
Beer, Gerald Metric projections and the Fell topology. (Italian summary) **90k:54026**
Brown, Aldric L. Set valued mappings, continuous selections, and metric projections. **90i:54047**
Cardinali, Tiziana (*with* Papalini, Francesca) The lower and upper semicontinuity of a multifunction. (Italian. English summary) **90i:54048**
Crivăţ, N. *see* **Bânzaru, T., 90e:54037**
Ewert, Janina (*with* Neubrunn, Tibor) On quasi-continuous multivalued maps. **90i:54049**
Gomonov, S. A. Cluster sets of multivalued mappings of topological spaces. **90g:54011**
Holá, Ľubica (*with* Baláž, Vladimír; Neubrunn, Tibor) Remarks on c-continuous multifunctions. (Russian and Slovak summaries) **90i:54050**
— Some conditions that imply continuity of almost continuous multifunctions. (Russian an Slovak summaries) **90i:54051**
— A remark on almost continuous multifunctions. (Russian summary) **90a:54052**
Lechicki, A. Some topological problems in multifunctions theory. (Italian summary) **90i:54052**
Mendoza, Laura A. Some remarks on functions with values in partially ordered sets. (Spanish) **90c:54011**
Naimpally, S. A. Wijsman convergence for function spaces. **90a:54053**
Náther, Ondrej On certain characterization of generalized continuity of multifunctions. (Russian and Slovak summaries) **90k:54027**
Neubrunn, Tibor *see* **Ewert, Janina, 90i:54049** *and* **Holá, Ľubica; et al., 90i:54050**
Noiri, Takashi (*with* Popa, Valeriu) Weakly quasi-continuous multifunctions. (French summary) **90k:54028**
Papadopoulos, Basil K. A topological lattice on the set of multifunctions. **90k:54029**
Papalini, Francesca *see* **Cardinali, Tiziana, 90i:54048**
Penot, J.-P. Metric regularity, openness and Lipschitzian behavior of multifunctions. **90h:54024**
Popa, Valeriu Sur les multifonctions faiblement continues et H-presque continues. [On weakly continuous and H-almost continuous multifunctions] **90m:54025**
— *see also* **Noiri, Takashi, 90k:54028**
Przemski, Marian On feeble T_1-continuity and feeble T_1-cliquishness of multivalued maps. **90j:54019**
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Sun, Xiao Ming Graphs and continuity of multifunctions. (Chinese. English summary) **90k:54030**

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Al-Ani, A. T. Relations among some multifunctions and spaces. (Arabic summary) **90e:54051**
Aubin, Jean-Pierre (*with* Wets, Roger J.-B.) Stable approximations of set-valued maps. (French summary) **90d:47065**
Averna, Diego Separation properties in X and 2^X. Upper semicontinuous and measurable multifunctions. **90k:54016**
Bânzaru, T. (*with* Crivăţ, N.) Characterization of the continuity for pointwise limit of multifunction nets. (Romanian summary) **90f:54024**
Basu, Dipak Kumar (*with* Ghosh, K. M.) Fixed point theorem for set valued mappings satisfying a rational inequality. **90d:54078**
Bogatyĭ, S. A. Iteration indices of a multivalued mapping. (Russian) **90e:54104**
Borwein, J. M. (*with* Zhuang, D. M.) Verifiable necessary and sufficient conditions for openness and regularity of set-valued and single-valued maps. **90h:90185**
— (*with* Fitzpatrick, Simon) Mosco convergence and the Kadec property. **90i:46025**
Camargo, José Luiz Corrêa Common fixed point theory: a new contribution. (Portuguese summary) **90h:54051**
Čerin, Zvonko Hyperspace characterizations of certain functions. **90h:54008**
Chandel, Raghvendra Singh Fixed point theorem for multivalued mappings under the Caristi-Kirk type condition. **90h:54052**
Chen, Guang Jun *see* **Wang, Chang Yu, 90i:90119**
Chen, Zhi Qiang A fixed-point theorem for set-valued mappings. (Chinese. English summary) **90i:47059**
Crivăţ, N. *see* **Bânzaru, T., 90f:54024**
Ding, Xie Ping Some coincidence theorems of set-valued mappings. **90i:47062**
El Abdouni, B. (*with* Thibault, L.) Quasi-interiorly e-tangent cones to multifunctions. **90i:90117**
Fan, Xian Ling A topological degree for multivalued generalized admissible mappings. (Chinese. English summary) **90j:55003**
Fischer, Thomas ★ Stetige Selektionen bei semi-infiniter Optimierung. (German) [Continu ous selections in semi-infinite optimization] **90b:90150**
Fitzpatrick, Simon *see* **Borwein, J. M., 90i:46025**
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Gaĭdarov, D. R. (*with* Ragimkhanov, R. K.) On the connection of convergences in spaces closed subsets. (Russian) **90e:54016**
Gel′man, B. D. On Kakutani-type fixed-point theorems for multivalued mappings. (Russia **90j:54046**
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Górniewicz, Lech (*with* Granas, A.; Kryszewski, W.) Sur la méthode de l'homotopie dans théorie des points fixes pour les applications multivoques. I. Transversalité topologique. (English summary) [On the homotopy method in fixed-point theory for set-valued maps I. Topological transversality] **90g:55002**
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Granas, A. *see* **Górniewicz, Lech; et al., 90g:55002** *and* **90j:55004**
Hadžić, Olga Fixed point theorems for multivalued mappings in some classes of fuzzy metric spaces. **90d:54083**
Hess, Christian Measurability and integrability of the weak upper limit of a sequence of multifunctions. **90h:90186**

Imdad, M. *see* **Khan, Mohd. Saeed, 90c:54029**
Kaneko, Hideaki A report on general contractive type conditions for multi-valued mappings. **90a:47144**
Khan, Mohd. Saeed (*with* Imdad, M.) On common fixed points of set-valued mappings. **90c:54029**
Kryszewski, W. *see* **Górniewicz, Lech; et al., 90g:55002** *and* **90j:55004**
McClendon, J. F. Continuous approximate solutions in parametric optimization. **90k:90156**
Mukherjee, Rathindra Nath^1 (*with* Som, Tanmoy; Verma, Vandana) On weak convergence to the fixed-point of a generalized asymptotically nonexpansive map. **90j:54048**
Naselli Ricceri, Ornella $\mathscr{A}$-fixed points of multi-valued contractions. **90a:54113**
Náther, Ondrej Addition to: "Some questions of quasicontinuity related to mathematical programming" [Acta Math. Univ. Comenian. **46/47** (1985), 145–155; MR 88g:54026]. (Russian and Slovak summaries) **90a:54039**
Neubrunn, Tibor Quasi-continuity. **90f:54025**
Nikodem, Kazimierz Additive selections of additive set-valued functions. (Serbo-Croatian summary) (Not in MR)
Papadopoulos, Basil K. The uniformity of uniform convergence and the compact-open topology on the set of multifunctions. **90i:54043**
Praninskas, G. Existence of continuous selections on spaces of subsets in topologies of Ochan type. **90d:54036**
Prokop, Frank P. Neighbourhood lattices—a poset approach to topological spaces. **90e:06011**
— Convergence in neighbourhood lattices. **90k:54006**
Przesławski, Krzysztof (*with* Rybiński, Longin E.) Michael selection theorem under weak lower semicontinuity assumption. **90i:54053**
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Samanta, S. K. An abstract fixed point theorem for multi-valued mappings. **90k:54059**
Skordev, G. S. The multiplicativity property of the fixed point index for multivalued maps. **90i:55002**
Som, Tanmoy *see* **Mukherjee, Rathindra Nath^1; et al., 90j:54048**
Su, De Kuang Fixed-point theorems for set-valued mappings on Banach spaces. (Chinese. English summary) **90g:47104**
Teodoru, Georgeta The Picard problem associated with a Lipschitzian hyperbolic multivalued equation. (Romanian summary) **90m:35132**
Thibault, L. *see* **El Abdouni, B., 90i:90117**
Torgashova, N. È. Modification of Kakutani's theorem and its application. **90k:54061**
Verma, Vandana *see* **Mukherjee, Rathindra Nath^1; et al., 90j:54048**
Wang, Chang Yu (*with* Chen, Guang Jun) Some properties of closed point-to-set mappings. (Chinese) **90i:90119**
Wets, Roger J.-B. *see* **Aubin, Jean-Pierre, 90d:47065**
Zhang, Lian Sheng Some remarks on multivalued mappings. (Chinese. English summary) **90i:26034**
Zhang, Wen Quan Continuity of set-valued mappings and some applications to the continuity of spectra of operators. (Chinese. English summary) **90b:47010**
Zhuang, D. M. *see* **Borwein, J. M., 90h:90185**

54C65 Selections [see also 28B20]

Bazilevich, L. È. Selection for the distance to a compact set function. (Ukrainian. Russian summary) (Not in MR)
Charatonik, Janusz J. (*with* Villani, Alfonso) On continuous parametrization of a family of separators of a locally connected curve. **90m:54027**
Kim, Taesung (*with* Prikry, Karel; Yannelis, Nicholas C.) On a Carathéodory-type selection theorem. **90b:54012**
Michael, Ernest A. Continuous selections avoiding a set. **90h:54025**
Nikodem, Kazimierz Additive selections of additive set-valued functions. (Serbo-Croatian summary) (Not in MR)
Praninskas, G. Existence of continuous selections on spaces of subsets in topologies of Ochan type. **90d:54036**
Prikry, Karel *see* **Kim, Taesung; et al., 90b:54012**
Przesławski, Krzysztof (*with* Rybiński, Longin E.) Michael selection theorem under weak lower semicontinuity assumption. **90i:54053**
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Semënov, P. V. Selectional coverings of topological spaces. (Russian) **90j:54020**
Sine, Robert Hyperconvexity and nonexpansive multifunctions. **90a:54054**
Ślęzak, Włodzimierz A. Concerning a.e.-continuous extensions of Baire 1 functions. (Polish summary) **90d:54037**
Villani, Alfonso *see* **Charatonik, Janusz J., 90m:54027**
Yannelis, Nicholas C. *see* **Kim, Taesung; et al., 90b:54012**

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Brown, Aldric L. Set valued mappings, continuous selections, and metric projections. **90i:54047**
Fryszkowski, Andrzej Caratheódory type selections of Aumann integrals. **90i:26033**
Holá, Ľubica Some properties of almost continuous linear relations. (Russian and Slovak summaries) **90k:46015**
Janus, Julian A remark on Carathéodory type selections. **90d:28013**
Li, Wu Characterization of continuous selections for metric projections in $C(X)$. **90f:41043**
Lin, Shou On a generalization of Michael's theorem. **90d:54023**
Maitra, A. (*with* Rao, B. V.; Srivatsa, V. V.) Some applications of selection theorems to parametrization problems. **90c:28008**
Pelant, Jan Uniformly continuous selections and l_1-property. **90i:54071**
Przesławski, Krzysztof (*with* Yost, David Thomas) Continuity properties of selectors and Michael's theorem. **90d:49010**
Rao, B. V. *see* **Maitra, A.; et al., 90c:28008**
Rzezuchowski, Tadeusz Strong convergence of selections implied by weak. **90c:28016**
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Teodoru, Georgeta Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Darboux problem associated to a multivalued equation. **90i:28018**
— Continuous selections for multifunctions satisfying the Carathéodory type conditions. The Goursat problem associated to a multivalued equation. **90m:35133**
Yost, David Thomas *see* **Przesławski, Krzysztof, 90d:49010**

54C70 Entropy

Seidler, Gerald T. The topological entropy of homeomorphisms on one-dimensional continua. **90g:54012**

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Block, Louis (*with* Keesling, James; Li, Shi Hai; Peterson, Kevin) An improved algorithm for computing topological entropy. **90k:58093**
Fathi, Albert Expansiveness, hyperbolicity and Hausdorff dimension. **90m:58159**
Fedorenko, V. V. *see* **Smital, Ya.; et al., 90m:58141**
Keesling, James *see* **Block, Louis; et al., 90k:58093**
Li, Shi Hai *see* **Block, Louis; et al., 90k:58093**
Newhouse, Sheldon E. Continuity properties of entropy. **90f:58108**
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Peterson, Kevin *see* **Block, Louis; et al., 90k:58093**
Salama, Ibrahim A. Topological entropy and recurrence of countable chains. **90d:54076**
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Sharkovskiĭ, A. N. *see* **Smital, Ya.; et al., 90m:58141**
Smital, Ya. (*with* Fedorenko, V. V.; Sharkovskiĭ, A. N.) Characterization of some classes of mappings of an interval with zero topological entropy. (Russian. English summary) **90m:58141**
Thomas, Romeo F. Topological entropy of fixed-point free flows. **90m:58178**
Xiong, Jin Cheng A note on topological entropy. (Chinese) (Not in MR)
— A simple proof of a theorem of Misiurewicz. (Chinese. English summary) **90j:58121**
Yue, Cheng Bo Dimension formula of invariant measures on hyperbolic sets. **90h:28022**
Zargaryan, A. S. A variational principle for a symbolic Markov chain with a countable number of states. (Russian) (*see* **90m:00040**)

54C99 None of the above, but in this section

Kulpa, Władysław Factorization theorems for lowering and raising of maps. (*see* **90g:28001**)
— (*with* Turzański, Marian) Bijections of scattered spaces onto compact Hausdorff. **90e:54038**
— (*with* Turzański, Marian) Bijections onto compact spaces. **90e:54039**
Rassias, George M. New and old results and problems in topology. **90e:54040**
Sher, R. B. On the separation of the plane by the closed one-to-one image of the reals. **90f:54033**
Trnková, Věra Simultaneous representations by metric spaces. (French summary) **90i:54054**
Turinici, M. A differential Lipschitzianness test on convex metric spaces. **90e:54041**
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Items with secondary classifications in 54C99

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Charalambous, M. G. The factorization theorem for paracompact Σ spaces. **90i:54080**
Chigogidze, A. Ch. n-soft mappings of n-dimensional spaces. **90j:54011**
Jarosz, K. Nonlinear generalizations of the Banach-Stone theorem. **90h:46047**
Karimov, U. Kh. Similarity of spaces in combinatorial topology. (Russian. Tajiki summary) **90i:54061**
Knebusch, Manfred ★ Weakly semialgebraic spaces. **90j:14027**
Maheshwari, Sheo Narayan (*with* Tiwari, R. K.) Inter-relations among some new mappings. **90d:54063**
Michel, A. N. *see* **Oppenheimer, Edward P., 90g:65067**
Mukherjee, M. N. (*with* Banerjee, G. K.) Pairwise T_i-continuous function and pairwise T_i-separation axioms in bitopological spaces. **90a:54079**
Oppenheimer, Edward P. (*with* Michel, A. N.) Application of interval analysis techniques to linear systems. I. Fundamental results. **90g:65067**
Tiwari, R. K. *see* **Maheshwari, Sheo Narayan, 90d:54063**
Vasil′ev, V. A. Topology of spaces of functions without complex singularities. **90k:58027**
Xin, Yu Mei Contiguous spaces and their properties. (Chinese. English summary) (Not in MR)

54Dxx Fairly general properties

54D05 Connected and locally connected spaces (general aspects)

Clark, Bradd Evans (*with* Schneider, Victor P.) A characterization of maximal connected spaces and maximal arcwise connected spaces. **90a:54055**
Dimitrijević, R. (*with* Kočinac, Ljubiša) Some classes of connected neighbourhood spaces. (Serbo-Croatian summary) **90e:54042**
Katsuura, Hidefumi Concerning generalized connectedness im Kleinen of a hyperspace. **90a:54056**
Kočinac, Ljubiša *see* **Dimitrijević, R., 90e:54042**
Kříž, I. (*with* Pultr, A.) Peculiar behavior of connected locales. (French summary) **90e:54043**
Mayer, J. C. (*with* Oversteegen, Lex G.) A topological characterization of $\mathbf{R}$-trees. **90k:54031**
Oversteegen, Lex G. *see* **Mayer, J. C., 90k:54031**
Pultr, A. *see* **Kříž, I., 90e:54043**
Schneider, Victor P. *see* **Clark, Bradd Evans, 90a:54055**
Tong, Jing Cheng D-sets and strong connectedness. **90m:54028**

Items with secondary classifications in 54D05

Baboolal, D. On uniform connectedness. **90i:54070**
Dorsett, Charles New characterizations and the feebly induced topology. **90e:54024**
Khalimsky, Efim Finite, primitive and Euclidean spaces. **90g:54026**
Paxia, Giuseppe (*with* Sergio, Irene) On the connectedness of some topological spaces. (French summary) **90d:54040**
Sergio, Irene *see* **Paxia, Giuseppe, 90d:54040**

54D10 Separation axioms, T_0–T_3

Acharya, K. (*with* Singh, Surendra Prasad) On weak separation axiom in a topological space. (Not in MR)
Chang, Hye Kyong *see* **Yu, Gang Un, 90d:54042**
Chimura, Hidehiko (*with* Nagata, Jun-iti) On extension of open collections. **90e:54044**
Dorsett, Charles Semi-T_0-identification spaces, semiregularization spaces, feebly induced spaces, and properties of topological spaces. **90g:54013**
Fukutake, Takayoshi Generalized closed sets of order n and $s \cdot T_{1/2}$-spaces. **90b:54013**
— On θ-weakly Hausdorff spaces. **90d:54038**
Ganster, M. Some remarks on strongly compact spaces and semicompact spaces. (Arabic summary) **90e:54045**
Guia, Josep Essentially T_D and essentially T_{UD} spaces. **90d:54039**
He, Ming Frame mappings and point separation axioms of topological spaces. **90h:54026**
Johnston, Brendan (*with* McCartan, S. D.) Minimal T_{YS}-spaces and minimal T_{DD}-spaces. **90a:54057**
Kovačević, Ilija On subsets, almost closed mappings and paracompactness. (Serbo-Croatian summary) **90j:54021**
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Baars, Jan (*with* de Groot, Joost) An isomorphical classification of function spaces of zero-dimensional locally compact separable metric spaces. **90a:54042**

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Miller, Edward S. Closed preimages of certain isocompactness properties. **90k:54036**

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Argyros, S. (*with* Mercourakis, S.; Negrepontis, Stelios) Functional-analytic properties of Corson-compact spaces. **90e:46020**

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Chigogidze, A. Ch. n-soft mappings of n-dimensional spaces. **90j:54011**
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54E45 Compact (locally compact) metric spaces

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54Fxx Special properties

54F05 Ordered topological spaces, partially ordered spaces [see also 06B30, 06F30]

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54F35 Higher dimensional local connectedness [see also 55Mxx, 55Nxx]

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54F40 Compact (locally compact) absolute neighborhood retracts

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54F43 Shape theory [See mainly 55P55, 57N25]

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54F45 Dimension theory [see also 55M10]

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Sternfeld, Yaki Hilbert's 13th problem and dimension. **90j:54035**
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Vlasov, S. V. Characterization of dimension ind ωX for a space X. (Russian) **90d:54071**
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uay, Merle D. (*with* Naimpally, S. A.) Finite-dimensional convexity topological spaces. **90a:52001**
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ulpa, Władysław (*with* Turzański, Marian) Bijections of scattered spaces onto compact Hausdorff. **90e:54038**
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eitgen, Heinz-Otto (*with* Jürgens, Hartmut) Fractals: computer experiments with (de)mystifying complex-structures. (Norwegian. English summary) **90i:58088**
esin, Ya. B. Dimension-like characteristics for invariant sets of dynamical systems. **90e:28011**
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amsey, James B. (*with* Yuan, Hsiao-Jane) The statistical properties of dimension calculations using small data sets. **90j:58094**
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uan, Hsiao-Jane *see* **Ramsey, James B., 90j:58094**

4F50 Spaces of dimension ≤ 1; curves, dendrites [see also 26A03]

ruber, Peter M. Dimension and structure of typical compact sets, continua and curves. **90k:54052**
liadis, Stavros Rational spaces and the property of universality. **90a:54097**
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haratonik, Janusz J. (*with* Villani, Alfonso) On continuous parametrization of a family of separators of a locally connected curve. **90m:54027**
avis, James Francis Semi-confluent mappings on continua. **90h:54018**
arrett, B. D. Connected and connectivity functions on dendrites. **90e:54023**
eath, Jo k-to-1 images of dendrites. **90b:54011**
ato, Hisao The nonexistence of expansive homeomorphisms of 1-dimensional compact ANRs. **90e:54067**
ennedy, Judy Positive entropy homeomorphisms on the pseudoarc. **90i:54078**
halimsky, Efim Finite, primitive and Euclidean spaces. **90g:54026**
rupski, Paweł (*with* Prajs, Janusz R.) Outlet points and homogeneous continua. **90f:54054**
ayer, J. C. (*with* Oversteegen, Lex G.) A topological characterization of $\mathbf{R}$-trees. **90k:54031**
edvedev, S. V. Continuation of homeomorphisms in zero-dimensional metric spaces. (Russian) **90e:54028**
iklos, S. Exactly $(n, 1)$ mappings on graphs. **90d:54024**
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islove, Michael (*with* Rogers, James T., Jr.) Local product structures on homogeneous continua. **90m:54044a**
— (*with* Rogers, James T., Jr.) Addendum: "Local product structures on homogeneous continua". **90m:54044b**
ohler, Lee (*with* Nikiel, Jacek) A universal smooth dendroid answering a question of J. Krasinkiewicz. **90h:54037**
ikiel, Jacek Orderability properties of a zero-dimensional space which is a continuous image of an ordered compactum. **90e:54076**
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versteegen, Lex G. On reductions of tree-words to (chain-) words. **90j:54034**
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aulin, Frédéric The Gromov topology on $\mathbf{R}$-trees. **90k:57015**
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ogers, James T., Jr. Decompositions of continua over the hyperbolic plane. **90a:54091**
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uncali, H. Murat Analogues of Treybig's product theorem. **90e:54081**
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u, Ying Kai Lacunarity and universality. **90i:82026**

4F55 Unicoherence, multicoherence

lanes, Alejandro An alternative proof to a conjecture of A. H. Stone. **90a:54098**

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iadis, Stavros Les images multivoques d'un segment. (Serbo-Croatian summary) [Multivalued images of a segment] **90c:54017**
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54F60 Maps into S_n

Laback, O. (*with* Oberritzer, R.) On the continuity of bijections of a sphere. **90j:54036**
Makeev, V. V. Some properties of continuous mappings of spheres and problems in combinatorial geometry. (Russian) (*see* **90h:00005**)
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Curtis, D. W. (*with* Rubin, Leonard R.) Sectionally continuous injections of Euclidean spaces. **90h:54016**
Rubin, Leonard R. *see* **Curtis, D. W., 90h:54016**

54F62 Periodic maps

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Ding, E Jiang Wave numbers and symbolic dynamics. **90a:58109**
Wang, Shi Cheng Essential invariant circles of surface automorphisms of finite order. **90e:57026**

54F65 Topological characterizations of particular spaces

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Bula, Witold D. (*with* Tymchatyn, E. D.) On a characterization of trees. **90h:54036**
Mirzakhanyan, R. È. The infinite iteration of the hyperspace functor. **90f:54020**
Mislove, Michael (*with* Rogers, James T., Jr.) Local product structures on homogeneous continua. **90m:54044a**
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Prajs, Janusz R. Openly homogeneous continua having only arcs for proper subcontinua. **90e:54080**
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Lu, Shi Jie The construction of nowhere dense perfect sets. (Chinese. English summary) (Not in MR)

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Basarab, Şerban A. Some model theory for generalized trees. **90f:03068**
Dress, Andreas W. M. Towards a classification of transitive group actions on finite metric spaces. **90h:54034**
Kočinac, Ljubiša Linearly singly bi-k-spaces. **90j:54014**
Nguyen To Nhu Some applications of the construction of Menger curve to the geometric measure theory. **90b:28008**
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54Gxx Peculiar spaces

54G05 Extremally disconnected spaces, F-spaces, etc.

Henriksen, M. (*with* Vermeer, J.; Woods, R. Grant) Wallman covers of compact spaces. **90e:54085**
Levy, Ronnie Semi-F-spaces. **90a:54099**
Paik, P. *see* **Thakur, S. S., 90e:54086**
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Balcar, Bohuslav (*with* Simon, Petr) Appendix on general topology. (*see* **90k:06004**)
Blair, Robert L. (*with* Polkowski, Lech T.; Swardson, Mary Anne) On barely α-compact spaces and remote points in $\beta_\alpha X \setminus X$. **90h:54032**
van Douwen, Eric K. Cardinal functions on Boolean spaces. (*see* **90k:06003**)
Ewert, Janina (*with* Neubrunn, Tibor) On quasi-continuous multivalued maps. **90i:54049**
Ganster, M. (*with* Reilly, I. L.; Vamanamurthy, Mavina K.) Dense sets and irresolvable spaces. **90c:54002**
Neubrunn, Tibor *see* **Ewert, Janina, 90i:54049**
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Sine, Robert Hyperconvexity and nonexpansive multifunctions. **90a:54054**
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Vechtomov, E. M. Rings of continuous functions with values in topological skew fields. (Russian) **90a:54049**
Zakharov, Valeriĭ Konstantinovich Lebesgue cover and Lebesguean extension. **90i:54044**

54G10 P-spaces

Items with secondary classifications in 54G10

Lawrence, L. Brian Paracompact product spaces defined by ultrafilters over the index set. **90g:54016**

54G15 Pathological spaces

Gutek, Andrzej Dispersion points and fixed points of subsets of the plane. **90d:54073**

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Mršević, M. (*with* Reilly, I. L.) On N-continuity and co$N$-closed topologies. **90h:54019**
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Paxia, Giuseppe (*with* Sergio, Irene) On the connectedness of some topological spaces. (French summary) **90d:54040**
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Thakur, S. S. (*with* Paik, P.) On P-connected spaces. **90e:54086**

54G20 Counterexamples

Shelah, Saharon A consistent counterexample in the theory of collectionwise Hausdorff spaces. **90e:54087**

Items with secondary classifications in 54G20

Diamond, Beverly An easy example of a 0-space not almost rimcompact. **90e:54055**
Dow, Alan (*with* Peters, T. J.) Products and remote points: examples and counterexamples. **90a:54069**
Grace, E. E. (*with* Vought, Eldon J.) Refinable maps and θ_n-continua. **90e:54025**
Kulesza, John Dimension and infinite products in separable metric spaces. **90m:54048**
Kuperberg, Krystyna On the bihomogeneity problem of Knaster. **90m:54043**
McCartan, S. D. (*with* McMaster, T. B. M.) Planks' constants. **90e:54048**
McMaster, T. B. M. *see* **McCartan, S. D., 90e:54048**
Nyikos, Peter J. The Cantor tree and the Fréchet-Urysohn property. **90j:54029**
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Pol, Roman Two examples of zero-dimensional sets in product spaces. **90i:54082**
Sun, Shu Hao (*with* Wang, Yan Min) Some properties of the Aleksandrov double circle spaces and their applications. (Chinese. English summary) **90f:54009**
Tamano, Ken-ichi *see* **Ohta, Haruto, 90d:28016**
Vaughan, J. E. A countably compact, first countable, nonnormal T_2-space which is almost compact. (Serbo-Croatian summary) **90e:54049**
Vought, Eldon J. *see* **Grace, E. E., 90e:54025**
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54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 04A15, 26A21, 28A05]

Balcerzak, M. Remarks on products of σ-ideals. **90a:54100**
Barone, E. (*with* Rao, K. P. S. Bhaskara) A topological zero-one law for open continuous maps. **90e:54089**
Berberian, S. K. Borel spaces. **90a:54101**
Bzyl, Włodzimierz On analytic-dense Blackwell sets. **90b:54024**
Debs, G. (*with* Saint-Raymond, Jean) Sélections boréliennes injectives. [Injective Borel selections] **90f:54060**
van Engelen, Fons Cofinal families of compacta in separable metric spaces. **90g:54031**
Mishkin, V. V. Autohomeomorphism groups of spaces with unique nonisolated point. **90f:54061**
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Calbrix, Jean Filtres boréliens sur l'ensemble des entiers et espaces des applications continues. [Borel filters on the set of integers and spaces of continuous mappings] **90a:54043**
Chamola, K. P. Fixed points of mappings satisfying a new contraction condition in random normed spaces. **90a:47140**
Drewnowski, L. Open mapping theorems and the Borel structure of Polish groups. **90k:46014**
Grishin, V. N. (*with* Kanoveĭ, V. G.) Work on descriptive set theory carried out at the V. A. Steklov Institute of Mathematics. (Russian) **90e:04001**
Gutiérrez, Ángel *see* **López Pellicer, M., 90g:46018**
Hansell, R. W. Sums, products and continuity of Borel maps in nonseparable metric spaces. **90d:28004**
Kanoveĭ, V. G. *see* **Grishin, V. N., 90e:04001**
Kechris, Alexander S. (*with* Louveau, Alain) ★ Descriptive set theory and the structure of sets of uniqueness. **90a:42008**
— The descriptive set theory of σ-ideals of compact sets. **90h:03032**
Kharazishvili, A. B. Borel mappings of completely nonperfect sets. (Russian. English and Georgian summaries) **90k:54025**
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Louveau, Alain *see* **Kechris, Alexander S., 90a:42008**
Rosenthal, Haskell Martingale proofs of a general integral representation theorem. **90h:46016**
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Voigt, B. *see* **Lefmann, Hanno, 90h:05020**
Walsh, John T. Marczewski sets, measure and the Baire property. **90a:28006a**
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Zajíček, Luděk On σ-porous sets and Borel sets. **90m:04002**

54H10 Topological representations of algebraic systems [see also 22–XX]

Choban, M. M. The theory of stable metrics. **90j:54037**
Hušek, M. *see* **Trnková, Věra, 90d:54074**
Trnková, Věra (*with* Hušek, M.) Nonconstant continuous maps of modifications of topological spaces. **90d:54074**

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Almeida, Jorge Residually finite congruences and quasi-regular subsets in uniform algebra **90m:08001**
Comfort, W. W. (*with* van Mill, Jan) On the existence of free topological groups. **90e:220**
Elaydi, S. (*with* Kaul, S. K.) Asymptotic stability in general dynamical systems. **90f:9300**
Flachsmeyer, Jürgen Orthoposets as substructures of Boolean algebras. **90m:06006**
Katrnoška, František On some topological results concerning the orthoposets. **90m:06007**
Kaul, S. K. *see* **Elaydi, S., 90f:93004**
van Mill, Jan *see* **Comfort, W. W., 90e:22001**
Zhitomirskiĭ, G. I. Semilattices as bases of topological spaces. (Russian) **90j:06008**

54H12 Topological lattices, etc. [see also 06B30, 06F30]

Items with secondary classifications in 54H12

Banaschewski, B. Another look at the localic Tychonoff theorem. **90a:06002**
Cohen, Haskell Bands on trees. **90e:22005**
Fleischer, Isidore Functional representation of vector lattices. **90d:06029**
Liu, Xiao Shi The interior operator, regularity and normality of the pointwise topology on completely distributive lattice. (Chinese. English summary) **90i:06008**
— Discreteness of lattices. (Chinese) **90i:06024**
Nikiel, Jacek Topologies on pseudo-trees and applications. **90e:54075**
Papadopoulos, Basil K. A topological lattice on the set of multifunctions. **90k:54029**
Wang, Guo Jun Pointwise topology on completely distributive lattices. **90e:06021**

54H13 Topological fields, rings, etc. {For algebraic aspects, see 12Jxx, 13Jxx, 16A80.}

Guo, Jian[2] Fuzzy uniformization of fuzzy topological rings. (Chinese. English summary) **90d:54075**
Tkachenko, M. G. Generalization of the Comfort-Ross theorem. I. **90h:54043**

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Al-Rashed, Abdallah M. Combinatorics on rings. **90f:28002**
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Kuczma, Marek An example of semilinear topologies. **90m:46009**
Tkachenko, M. G. Generalization of the Comfort-Ross theorem. II. **90k:54015**

54H15 Transformation groups and semigroups [see also 20M20, 22–XX, 57Sxx]

Agrawal, Gunjan *see* **Azad, K. K., 90a:54102**
Azad, K. K. (*with* Agrawal, Gunjan) On the projective cover of an orbit space. **90a:54102**
Babaev, È. A. Semigroups of open transformations. (Russian. English and Azerbaijani summaries) **90b:54026**
Balanov, Z. Fundamental domains and some problems of equivariant topology. (Russian. English summary) **90k:54053**
Hohti, Aarno Another alternative proof of Effros' theorem. **90e:54090**
Kennedy, Judy Compactifying the space of homeomorphisms. **90f:54062**
Klotzek, Benno Diskrete Bewegungsgruppen in metrischen Räumen. (English and Russia summaries) [Discrete motion groups in metric spaces] **90h:54044**
Muradov, F. Kh. Superassociative algebras of partial continuous functions. (Russian. English and Azerbaijani summaries) **90e:54091**
Mustafaev, L. G. Semigroups of continuous partial transforms of topological spaces. (Russian. English and Azerbaijani summaries) **90e:54092**
Okroyan, M. O. Equivariant projection spectra of a paracompact G-space. (Russian) **90e:54093**
Ostaszewski, Krzysztof Semigroups of density-continuous functions. **90b:54027**
Smirnov, Yu. M. Some problems and results in the general theory of transformation group (*see* 90g:28001)
Strantzalos, Polychronis Actions by isometries. **90f:54063**

Items with secondary classifications in 54H15

Allenby, P. D. (*with* Sears, M.) Extension of flows via discontinuous functions. **90g:54032**

Barone, E. (*with* Rao, K. P. S. Bhaskara) A topological zero-one law for open continuous maps. **90e:54089**

Dranishnikov, A. N. Free actions of 0-dimensional compact groups. **90e:57065**

Gevorkyan, P. S. Majorants for G-movable compact spaces. **90f:54031**

Hindman, Neil Solving equations in βN. **90m:54036**

Magill, K. D., Jr. On the ideals of the semigroup of the 1-sphere. **90i:20068**

– Embedding semigroups into semigroups with countability index two. **90h:20095**

– More on the countability index and the density index of $S(X)$. **90m:22008**

Matumoto, Takao Equivariant CW complexes and shape theory. **90g:55007**

Natanzon, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) **90b:14038**

Nyikos, Peter J. The Cantor tree and the Fréchet-Urysohn property. **90j:54029**

Paulin, Frédéric The Gromov topology on **R**-trees. **90k:57015**

Poon, Yiu-Tung Stable rank of some crossed product C^*-algebras. **90d:46098**

Porter, Kathryn F. Set-set topologies and semitopological groups. **90j:22003**

Rao, K. P. S. Bhaskara *see* **Barone, E., 90e:54089**

Schirmer, Helga Sets of periodic points of continuous functions. **90d:54094**

Schlichting, Günter On the periodicity of group operations. **90d:20008**

Sears, M. *see* **Allenby, P. D., 90g:54032**

Vaught, Robert On extending actions. **90c:54020**

Wu, He (*with* Zhang, Jing Zhong) Embedding of n-dimensional mapping in an n-parameter flow. **90a:58153**

Zhang, Jing Zhong *see* **Wu, He, 90a:58153**

54H20 Topological dynamics [see also 28Dxx, 34C35, 58Fxx]

Aarts, J. M. Orientation of orbits in flows. **90h:54045**

Allenby, P. D. (*with* Sears, M.) Extension of flows via discontinuous functions. **90g:54032**

Angelov, Vasil G. A reuniformization of "dynamical systems ansamble" in uniform spaces. **90i:54084**

Auslander, Joseph (*with* Markley, N. G.) Proximal roots of minimal homeomorphisms. **90h:54046**

Bandt, Christoph Self-similar sets. I. Topological Markov chains and mixed self-similar sets. **90j:54038**

Blanchard, F. β-expansions and symbolic dynamics. **90j:54039**

Bogatyĭ, S. A. Periodic points of a mapping of a tree. (Russian) **90m:54050**

Cheban, D. N. Nonautonomous dissipative dynamical systems. The method of Lyapunov functions. (Russian) **90b:54028**

– Some problems in the theory of dissipative dynamical systems. I. (Russian) **90k:54054**

– A problem of J. Hale. (Russian) **90i:54085**

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Downarowicz, T. Some properties of weakly almost periodic mappings on compact spaces. **90c:54021**

– Weakly almost periodic mappings on one- and two-manifolds. **90c:54022**

Fal'ko, N. S. On the classification of Lyapunov-stable dynamical systems of perturbed motions. (Russian) **90h:54047**

Feiste, Uwe A generalization of mixed invariant sets. **90h:54048**

Freedman, H. I. (*with* So, Joseph W.-H.) Persistence in discrete semidynamical systems. **90f:54064**

Garay, Barnabas M. Parallelizability in Banach spaces: applications of negligibility theory. **90e:54094**

– Uniform persistence and chain recurrence. **90h:54049**

Glasner, S. (*with* Maon, D.) Rigidity in topological dynamics. **90h:54050**

Gusev, A. I. (*with* Donskoĭ, D. E.) On the structure of pre-orders of mappings of compacta. (Russian) (*see* **90m:00015**)

Gutsu, V. I. Dynamical systems of shifts in a space of piecewise continuous functions. (Russian) **90a:54103**

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— Fixed points of retractible mappings. **90g:54040**
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— The coincidence degree and coincidence theorem for fuzzy mappings. (Chinese) 90c:47107

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54H99 None of the above, but in this section

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Gähler, Werner Monads and convergence. 90b:18007

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54J05 Nonstandard topology [see also 03Hxx]

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Bandlow, Ingo A note on applications of the Löwenheim-Skolem theorem in general topology. 90f:54008

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5–XX Algebraic topology

5–01 Elementary exposition; textbooks

ayer, Karl Heinz ★ Algebraische Topologie. (German) [Algebraic topology] **90a:55001**
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ocking, John G. (*with* Young, Gail S.) ★ Topology. **90h:54001**
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5–02 Advanced exposition (research surveys, monographs, etc.)

dams, J. F. Problem session for homotopy theory. **90f:55001**
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55–04 Explicit machine computation and programs (not the theory of computation or programming)

Davis, Donald M. Use of a computer to suggest key steps in the proof of a theorem in topology. **90k:55001**
Rector, David L. A computer language for topologists. **90a:55002**

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55–06 Proceedings, conferences, etc.

(Carlsson, G.) *see* **Algebraic topology, 90a:55003**
(Cohen, Ralph L.) *see* **Algebraic topology, 90a:55003**
(James, I. M.) *see* **Advances in homotopy theory, 90m:55001**
(Jiang, Bo Ju) *see* **Topological fixed point theory and applications, 90i:55001**
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55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57N05, 57N10, 57N15.}

55M10 Dimension theory [see also 54F45]

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55M15 Absolute neighborhood retracts [see also 54C55, 54F40]

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5M35 Finite groups of transformations (including Smith theory) [see also 57S17]

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5N05 Čech types

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55N15 K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

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55N20 Generalized (extraordinary) homology and cohomology theories

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55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

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— (*with* Würgler, Urs) Liftings of formal groups and the Artinian completion of v_n^{-1}BP. **90i:55008**

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Kane, Richard M. (*with* Moreno, Guillermo) Spherical homology classes in the bordism of Lie groups. **90e:57073**

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55N25 Homology with local coefficients, equivariant cohomology

Adem, Alejandro (*with* Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. **90k:55012**

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Honkasalo, Hannu Equivariant Alexander-Spanier cohomology. **90i:55013**

Items with secondary classifications in 55N25

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Oda, Nobuyuki (*with* Shitanda, Yoshimi) Localization, completion and detecting equivariant maps on skeletons. **90e:55021**

Oruç, Melda Yaman The equivariant Steenrod algebra. **90h:55028**

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55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

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Asada, Akira Remarks on the relations between nonabelian de Rham theories with respec to G and ΩG. **90i:55014**

Dydak, Jerzy (*with* Walsh, John J.) Cohomological local connectedness of decompositio spaces. **90e:55012**

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55N35 Other homology theories

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Roos, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré Betti series in commutative algebra. **90f:55020**

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55N45 Products and intersections

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55N91 Equivariant homology and cohomology

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Fadell, E. (*with* Husseini, S. Y.) Index theory for noncompact group actions with applications to Borsuk-Ulam theorems. **90m:55009**

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5Pxx Homotopy theory {For simple homotopy type, see 57Q10.}

5P05 Homotopy extension properties, cofibrations

lonso, Juan M. Fibrations that are cofibrations. II. **90e:55014**
rieto, Carlos Fluidification of quivers and the Tietze extension theorem for diagrams of topological spaces. **90e:55015**

tems with secondary classifications in 55P05

Iiwa, Takuo Linear topological spaces and simplicial complexes with the locally convex topology. **90e:46003**
lrich, Hanno ★ Fixed point theory of parametrized equivariant maps. **90h:57045**

5P10 Homotopy equivalences

dams, J. F. (*with* Kuhn, Nicholas J.) Atomic spaces and spectra. **90m:55010**
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uhn, Nicholas J. *see* **Adams, J. F., 90m:55010**
tramaccia, Luciano Homotopy preserving functors. (French summary) **90d:55011**
nsöld, Hans Michael A_n^4-polyhedra with free homology. **90h:55010**
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xtremiana Aldana, José Ignacio (*with* Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. **90m:57016**
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5P15 Classification of homotopy type

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rown, Ronald (*with* Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. **90e:18015**
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55P20 Eilenberg-Mac Lane spaces

Møller, Jesper Michael Self-maps on twisted Eilenberg-Mac Lane spaces. **90a:55017**
Salvetti, Mario Generalized braid groups and self-energy Feynman integrals. **90e:55017**

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Brown, Edgar H., Jr. (*with* Szczarba, Robert H.) On real homotopy theory. **90e:55022**
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55P25 Spanier-Whitehead duality

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Hillman, J. A. (*with* Kearton, C.) Stable isometry structures and the factorization of Q-acyclic stable knots. **90h:57026**
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Lomonaco, Luciano A remark on the total squaring operation. (Italian summary) **90c:55019**

55P35 Loop spaces

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Kono, Akira (*with* Ohsita, Akihiro) On H-spaces which are the homotopy fibres of self-maps of spheres. **90m:55011**
— (*with* Kozima, Kazumoto) The mod 2 homology of the space of loops on the exceptional Lie group. **90h:55011**
Kozima, Kazumoto *see* **Kono, Akira, 90h:55011**
Mahmud, Zafer Unstable atomicity of $\Omega\,\mathrm{Spin}(r)$. **90h:55012**
Ohsita, Akihiro *see* **Kono, Akira, 90m:55011**
Scheerer, Hans (*with* Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. IV. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. IV] **90e:55018**
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— The first k-invariant of a double loop space is trivial. **90j:55028**
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Bödigheimer, C.-F. (*with* Cohen, Frederick R.; Taylor, Laurence R.) On the homology of configuration spaces. **90h:57031**
Cohen, Frederick R. *see* **Bödigheimer, C.-F.; et al., 90h:57031**
Fadell, E. (*with* Husseini, S. Y.) A note on the category of the free loop space. **90a:55008**
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Iwase, Norio (*with* Mimura, Mamoru) Higher homotopy associativity. **90f:55017**
Lawson, H. Blaine, Jr. Algebraic cycles and homotopy theory. **90h:14008**
Mimura, Mamoru *see* **Iwase, Norio, 90f:55017**
Nguyễn Hữ'u Việt Hu'ng Classes de Dickson et algèbres de cohomologie des espaces de lacets itérés. (English summary) [Dickson classes and cohomology algebras of iterated loop spaces] **90c:57037**
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Nguyen Nam Hai (*with* Nguyễn Hữ'u Việt Hu'ng) Steenrod operations on mod 2 homology of the iterated loop space. **90m:55019**
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Tanré, Daniel *see* **Scheerer, Hans, 90b:55003**
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Yamaguchi, Atsushi Morava K-theory of double loop spaces of spheres. **90e:55009**

55P40 Suspensions

Berstein, Israel (*with* Harper, John R.) Cogroups which are not suspensions. **90c:55006**
Gray, Brayton On the double suspension. **90f:55014**
Harper, John R. *see* **Berstein, Israel, 90c:55006**

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55P42 Stable homotopy theory, spectra

Carlisle, David (*with* Kuhn, Nicholas J.) Smash products of summands of $B(\mathbf{Z}/p)^n{}_+$. **90i:55017**
Elmendorf, A. D. The Grassmannian geometry of spectra. **90c:55007**
Kuhn, Nicholas J. *see* **Carlisle, David, 90i:55017**
Mitchell, Stephen A. (*with* Priddy, Stewart) A double coset formula for Levi subgroups and splitting BGL_n. **90f:55015**
Ohkawa, Tetsusuke The injective hull of homotopy types with respect to generalized homology functors. **90j:55013**
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Robinson, Alan Composition products in *R*Hom, and ring spectra of derived endomorphisms. **90i:55018**

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Adams, J. F. (*with* Kuhn, Nicholas J.) Atomic spaces and spectra. **90m:55010**
Adem, Alejandro (*with* Cohen, Ralph L.; Dwyer, W. G.) Generalized Tate homology, homotopy fixed points and the transfer. **90k:55012**
Ahn, Seung Ho *see* **Lee, Ke An; et al., 90a:55013**
Baker, Andrew James (*with* Würgler, Urs) Liftings of formal groups and the Artinian completion of v_n^{-1}BP. **90i:55008**
Caruso, J. (*with* May, J. P.; Priddy, Stewart) The Segal conjecture for elementary abelian *p*-groups. II. *p*-adic completion in equivariant cohomology. **90c:55005**
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Crabb, M. C. Periodicity in Z/4-equivariant stable homotopy theory. **90j:55018**
Dwyer, W. G. *see* **Adem, Alejandro; et al., 90k:55012**
Evens, Leonard (*with* Priddy, Stewart) The ring of universally stable elements. **90k:20089**
Hillman, J. A. (*with* Kearton, C.) Stable isometry structures and the factorization of Q-acyclic stable knots. **90h:57026**
Inoue, Kouichi On a geometric realization of $\mathscr{A}(2)$. **90a:55029**
Jeon, Won-Kee *see* **Lee, Ke An; et al., 90a:55013**
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Klippenstein, John (*with* Snaith, Victor) A conjecture of Barratt-Jones-Mahowald concerning framed manifolds having Kervaire invariant one. **90c:55011**
— The *b*u cohomology of BP$\langle n\rangle$. **90g:55004**
Kuhn, Nicholas J. *see* **Adams, J. F., 90m:55010**
Lee, Ke An (*with* So, Kwangho; Jeon, Won-Kee; Ahn, Seung Ho) Computations of some $\widetilde{K}_F(S^n)$ and $\widetilde{K}_F(\mathrm{P}_3(\mathbf{R}))$. **90a:55013**
Lin, Wên Hsiung Order of the identity map of the Brown-Gitler spectrum. **90d:55022**
Markl, Martin The real *K*-ring of some CW-complexes of small dimension. **90a:55014**
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Oruç, Melda Yaman The equivariant Steenrod algebra. **90h:55028**
Pedersen, Erik K. (*with* Weibel, Charles A.) *K*-theory homology of spaces. **90m:55007**
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Ribeiro, C. F. M. *K*O-groups of the Stiefel manifolds $V_{n,4}$ and $V_{n,5}$. **90g:55003**
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Szűcs, A. Applications of the Pontrjagin-Thom construction for singular maps. **90i:57019**
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55P45 *H*-spaces and duals

Arkowitz, Martin Categories equivalent to the category of rational *H*-spaces. **90f:55016**
Doman, Ryszard Moore *G*-spaces which are not co-Hopf *G*-spaces. **90h:55013**
Hubbuck, J. R. (*with* Mimura, Mamoru) The number of mod *p* *A*(*p*)-spaces. **90a:55018**
Iwase, Norio (*with* Mimura, Mamoru) Higher homotopy associativity. **90f:55017**
— Homotopy associativity of sphere extensions. **90h:55014**
— *H*-spaces with generating subspaces. **90h:55015**
Kane, Richard M. ★ The homology of Hopf spaces. **90f:55018**
Lin, James P. Lie groups from a homotopy point of view. **90d:55012**
— (*with* Williams, Frank) On 14-connected finite *H*-spaces. **90g:55006**
— (*with* Williams, Frank) On 6-connected finite *H*-spaces with two torsion. **90d:55013**
McGibbon, C. A. Higher forms of homotopy commutativity and finite loop spaces. **90f:55019**
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Roos, Jan-Erik Homology of free loop spaces, cyclic homology and nonrational Poincaré-Betti series in commutative algebra. **90f:55020**
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Berstein, Israel (*with* Harper, John R.) Cogroups which are not suspensions. **90c:55006**
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Kono, Akira (*with* Ohsita, Akihiro) On *H*-spaces which are the homotopy fibres of self-maps of spheres. **90m:55011**
Ohsita, Akihiro *see* **Kono, Akira, 90m:55011**
Papadopoulos, Basil K. The induced *H*-structure on function spaces. **90j:54017**
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55P47 Infinite loop spaces

Han, Sang-Eon The functors Γ^+, Γ and infinite loop spaces. **90e:55019**
Kuhn, Nicholas J. Morava *K*-theories and infinite loop spaces. **90d:55014**

Items with secondary classifications in 55P47

Campbell, H. E. A. (*with* Selick, P. S.) On the semi-tensor product of the Dyer-Lashof and Steenrod algebras. **90h:55029**
Selick, P. S. *see* **Campbell, H. E. A., 90h:55029**
Shimakawa, Kazuhisa Infinite loop *G*-spaces associated to monoidal *G*-graded categories. **90k:55017**

55P50 Category and cocategory, etc.

Montejano, L. Categorical and contractible covers of polyhedra. **90e:55020**

Items with secondary classifications in 55P50

Jessup, Barry Rational approximations to L-S category and a conjecture of Ganea. **90e:55023**

55P55 Shape theory [see also 54C56, 54F43, 55Q07]

Dow, Alan (*with* Simon, Petr; Vaughan, J. E.) Strong homology and the proper forcing axiom. **90a:55019**
Ivanšić, I. (*with* Uglešić, N.) Weak fibrant compacta. (Serbo-Croatian summary) **90j:550**
Matumoto, Takao Equivariant CW complexes and shape theory. **90g:55007**
Mrozik, Peter Continua that are shape-equivalent but not UV^1-equivalent. **90c:55008**
Sanjurjo, José M. R. A noncontinuous description of the shape category of compacta. **90j:55015**
Simon, Petr *see* **Dow, Alan; et al., 90a:55019**
Thiemann, Hanns The relation between homotopy limits and Bauer's shape singular complex. (French summary) **90h:55016**
Uglešić, N. *see* **Ivanšić, I., 90j:55014**
Vaughan, J. E. *see* **Dow, Alan; et al., 90a:55019**

Items with secondary classifications in 55P55

Brechner, B. L. (*with* Mayer, J. C.; Tymchatyn, E. D.) Inaccessibility, essential maps, and shape theory. **90f:54029**
Chigogidze, A. Ch. *n*-shapes and *n*-cohomotopy groups of compacta. **90f:54056**
Choi, Jung-In K. (*with* Woo, Moo Ha) UV^∞-maps that are fine homotopy equivalences. **90i:55015**
Gevorkyan, P. S. Majorants for *G*-movable compact spaces. **90f:54031**
Mayer, J. C. *see* **Brechner, B. L.; et al., 90f:54029**
Tezer, Cem Shape classification of Klein-bottle-like continua. **90g:54028**
Tymchatyn, E. D. *see* **Brechner, B. L.; et al., 90f:54029**
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55P60 Localization and completion

Deleanu, Aristide Compact homotopy functors and the equivariant Sullivan profinite completion. **90f:55021**
Dror Farjoun, Emmanuel (*with* Orr, K.; Shelah, Saharon) Bousfield localization as an algebraic closure of groups. **90j:55016**
Iwase, Norio A continuous localization and completion. **90k:55015**
Maruyama, Ken-ichi Localization of a certain subgroup of self-homotopy equivalences. **90d:55015**
Meyer, Jean-Pierre Cosimplicial homotopies. **90d:55016**
Møller, Jesper Michael Self-homotopy equivalences of $H_*(-;\mathbf{Z}/p)$-local spaces. **90i:5501**
Oda, Nobuyuki (*with* Shitanda, Yoshimi) Equivariant phantom maps. **90d:55017**
— (*with* Shitanda, Yoshimi) Localization, completion and detecting equivariant maps on skeletons. **90e:55021**
Orr, K. *see* **Dror Farjoun, Emmanuel; et al., 90j:55016**
Peschke, Georg Localizing groups with action. **90j:55017**
Rao, Vidhyanath Morphisms inverted by profinite completion. **90d:55018**
Shelah, Saharon *see* **Dror Farjoun, Emmanuel; et al., 90j:55016**
Shitanda, Yoshimi *see* **Oda, Nobuyuki, 90d:55017** *and* **90e:55021**
Sumi, Toshio Localization of *G-CW* complexes at a system of primes. **90d:55019**

Items with secondary classifications in 55P60

Alonso, Juan M. Fibrations that are cofibrations. II. **90e:55014**
Burghelea, Dan A localization theorem for functional S^1-spaces. **90d:55010**
Ewing, John H. (*with* Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. **90a:57030**
Löffler, Peter *see* **Ewing, John H.; et al., 90a:57030**
Notbohm, Dietrich The fixed-point conjecture for *p*-toral groups. **90a:57053**
Ohkawa, Tetsusuke The injective hull of homotopy types with respect to generalized homology functors. **90j:55013**
Pedersen, Erik K. *see* **Ewing, John H.; et al., 90a:57030**
Scheerer, Hans (*with* Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwy IV. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. IV] **90e:550**
Tanré, Daniel *see* **Scheerer, Hans, 90e:55018**
Yamaguchi, Atsushi On the *p*-regularity of Stiefel manifolds. **90h:57055**

55P62 Rational homotopy theory

Anick, David J. An *R*-local Milnor-Moore theorem. **90h:55017**
Bøgvad, Rikard (*with* Jacobsson, Carl) Graded Lie algebras of depth one. **90i:55020**
Bousfield, A. K. (*with* Peterson, Chariya P.; Smith, Larry) The rational homology of function spaces. **90d:55020**
Brown, Edgar H., Jr. (*with* Szczarba, Robert H.) On real homotopy theory. **90e:55022**
Golasiński, Marek Rational homotopy type of nilpotent and complete spaces. **90g:55008**
Jacobsson, Carl *see* **Bøgvad, Rikard, 90i:55020**
Jessup, Barry Rational approximations to L-S category and a conjecture of Ganea. **90e:55023**
Lambre, Thierry Homotopie équivariante et formalité. (English summary) [Equivariant homotopy and formality] **90g:55009**
Lupton, Gregory Intrinsic formality and certain types of algebras. **90k:55016**
Markl, Martin On the rational homotopy Lie algebra of spaces with finite-dimensional rational cohomology and homotopy. (French summary) **90h:55018**
Peterson, Chariya P. *see* **Bousfield, A. K.; et al., 90d:55020**
Smith, Larry *see* **Bousfield, A. K.; et al., 90d:55020**
Szczarba, Robert H. *see* **Brown, Edgar H., Jr., 90e:55022**
Umble, Ronald N. Homotopy conditions that determine rational homotopy type. **90i:550**

Items with secondary classifications in 55P62

Anick, David J. Homotopy exponents for spaces of category two. **90c:55010**
Arkowitz, Martin Categories equivalent to the category of rational *H*-spaces. **90f:55016**
Burghelea, Dan A localization theorem for functional S^1-spaces. **90d:55010**
Doman, Ryszard Moore *G*-spaces which are not co-Hopf *G*-spaces. **90h:55013**
Félix, Yves (*with* Lemaire, Jean-Michel) On the mapping theorem for Lusternik-Schnirel'mann category. II. **90h:55004**

rasauskas, R. The rational type of some groups of homeomorphisms. **90c:57031**
emaire, Jean-Michel *see* **Félix, Yves, 90h:55004**
uadghiri, A. Un modèle de Sullivan en homotopie modérée. [A Sullivan model in tame homotopy] **90f:55006**
cheerer, Hans Report on tame homotopy theory via differential forms. **90f:55007**
— (*with* Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. III. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. III] **90b:55003**
anré, Daniel *see* **Scheerer, Hans, 90b:55003**

5P65 Homotopy functors

lakharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) **90c:55009**

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rown, Ronald ★ Topology. **90k:54001**
eleanu, Aristide Compact homotopy functors and the equivariant Sullivan profinite completion. **90f:55021**
awson, H. Blaine, Jr. Algebraic cycles and homotopy theory. **90h:14008**
tramaccia, Luciano Homotopy preserving functors. (French summary) **90d:55011**

5P91 Equivariant homotopy theory

rabb, M. C. Periodicity in $Z/4$-equivariant stable homotopy theory. **90j:55018**
oman, Ryszard On injective rational coefficient systems. **90e:55024**
ror Farjoun, Emmanuel (*with* Zabrodsky, Alexander) Fixed points and homotopy fixed points. **90e:55025**
himakawa, Kazuhisa Infinite loop G-spaces associated to monoidal G-graded categories. **90k:55017**
iegel, Jerrold (*with* Williams, Frank) Uniform bounds for equivariant homotopies. **90h:55019**
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ambre, Thierry Homotopie équivariante et formalité. (English summary) [Equivariant homotopy and formality] **90g:55009**
litchell, Stephen A. (*with* Priddy, Stewart) A double coset formula for Levi subgroups and splitting BGL_n. **90f:55015**
riddy, Stewart *see* **Mitchell, Stephen A., 90f:55015**
rieto, Carlos Fluidification of quivers and the Tietze extension theorem for diagrams of topological spaces. **90e:55015**

5P99 None of the above, but in this section

dams, J. F. (*with* Haeberly, J.-P.; Jackowski, S.; May, J. P.) A generalization of the Atiyah-Segal completion theorem. **90e:55026**
— (*with* Haeberly, J.-P.; Jackowski, S.; May, J. P.) A generalization of the Segal conjecture. **90e:55027**
yala, R. (*with* Domínguez Murillo, Eladio; Quintero, A.) Calculations of cylindrical p-homotopy groups. **90i:55022**
— (*with* Domínguez Murillo, Eladio; Quintero, A.) Proper homotopy exact sequences for proper fibrations. **90i:55023**
omínguez Murillo, Eladio *see* **Ayala, R.; et al., 90i:55022** *and* **90i:55023**
ottlieb, Daniel Henry Splitting off tori and the evaluation subgroup of the fundamental group. **90j:55019**
laeberly, J.-P. *see* **Adams, J. F.; et al., 90e:55026** *and* **90e:55027**
ackowski, S. (*with* McClure, James E.) Homotopy approximations for classifying spaces of compact Lie groups. **90m:55012**
— *see also* **Adams, J. F.; et al., 90e:55026** *and* **90e:55027**
lay, J. P. *see* **Adams, J. F.; et al., 90e:55026** *and* **90e:55027**
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iegel, Jerrold (*with* Williams, Frank) Uniform bounds for isoperimetric problems. **90g:55010**
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tems with secondary classifications in 55P99

ohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. **90a:20077**
as, Tarum Kumar On Stone extensions of homotopic maps. (Serbo-Croatian summary) **90f:54038**
uflot, Jeanne A Hopf algebra associated to the cohomology of the symmetric groups. **90a:20107**
ilton, Peter John On the extended genus. **90m:20041**
rasinkiewicz, J. Homotopy separators and mappings into cubes. **90i:54081**
lai, Jie Hua (*with* Tang, Yun) Free deformation retraction in injective metric spaces. **90k:54021**
lakeev, V. V. Some properties of continuous mappings of spheres and problems in combinatorial geometry. (Russian) (*see* **90h:00005**)
alvetti, Mario On the homotopy type of the complement to an arrangement of lines in C^2. (Italian summary) **90b:32025**
ang, Yun *see* **Mai, Jie Hua, 90k:54021**

5Qxx Homotopy groups

5Q05 Homotopy groups, general; sets of homotopy classes

nick, David J. Homotopy exponents for spaces of category two. **90c:55010**
Lannes, Jean (*with* Schwartz, Lionel) Sur les groupes d'homotopie des espaces dont la cohomologie modulo 2 est nilpotente. (English summary) [Homotopy groups of spaces whose cohomology modulo 2 is nilpotent] **90i:55024**
Scheerer, Hans (*with* Tanré, Daniel) Exploration de l'homotopie modérée de W. G. Dwyer. III. (English summary) [Exploring W. G. Dwyer's tame homotopy theory. III] **90b:55003**
Schwartz, Lionel *see* **Lannes, Jean, 90i:55024**
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Items with secondary classifications in 55Q05

Baues, Hans Joachim ★ Algebraic homotopy. **90i:55016**
Extremiana Aldana, José Ignacio (*with* Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. **90m:57016**
Hernández, L. J. *see* **Extremiana Aldana, José Ignacio; et al., 90m:57016**
Li, Bang He (*with* Tang, Zi Zhou) Codimension 1 and 2 immersions of lens spaces. **90m:57028**
Maki, H. (*with* Noiri, Takashi) The pasting lemma for α-continuous maps. (Serbo-Croatian summary) **90i:54038**
Mislin, Guido (*with* Thomas, Charles B.) On the homotopy set $[B\pi, BG]$ with π finite and G a compact connected Lie group. **90a:55027**
Møller, Jesper Michael Self-maps on twisted Eilenberg-Mac Lane spaces. **90a:55017**
Noiri, Takashi *see* **Maki, H., 90i:54038**
Oda, Nobuyuki (*with* Shitanda, Yoshimi) Localization, completion and detecting equivariant maps on skeletons. **90e:55021**
Profio, Joseph S. Using subnormality to show the simple connectivity at infinity of a finitely presented group. **90k:20057**
Rivas, M. T. *see* **Extremiana Aldana, José Ignacio; et al., 90m:57016**
Shitanda, Yoshimi *see* **Oda, Nobuyuki, 90e:55021**
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Thomas, Charles B. *see* **Mislin, Guido, 90a:55027**

55Q07 Shape groups

Items with secondary classifications in 55Q07

Chigogidze, A. Ch. n-shapes and n-cohomotopy groups of compacta. **90f:54056**
Mezey, Paul Shape group studies of molecular similarity: shape groups and shape graphs of molecular contour surfaces. **90j:92062**

55Q10 Stable homotopy groups

Baker, Andrew James (*with* Carlisle, David; Gray, Brayton; Hilditch, S.; Ray, Nigel; Wood, R. M. W.) On the iterated complex transfer. **90d:55021**
Carlisle, David *see* **Baker, Andrew James; et al., 90d:55021**
Gray, Brayton *see* **Baker, Andrew James; et al., 90d:55021**
Hilditch, S. *see* **Baker, Andrew James; et al., 90d:55021**
Lin, Wên Hsiung Order of the identity map of the Brown-Gitler spectrum. **90d:55022**
Ray, Nigel *see* **Baker, Andrew James; et al., 90d:55021**
Sadofsky, Hal Higher p-torsion in the β-family. **90g:55011**
Wood, R. M. W. *see* **Baker, Andrew James; et al., 90d:55021**
Zaldivar, Felipe The stable homotopy of $BZ/4$. **90h:55020**

Items with secondary classifications in 55Q10

Baker, Andrew James (*with* Clarke, Francis; Ray, Nigel; Schwartz, Lionel) On the Kummer congruences and the stable homotopy of BU. **90c:55003**
Bauer, Stefan On the Segal conjecture for compact Lie groups. **90j:55023**
Carter, J. Scott Surgering the equatorial immersion in low dimensions. **90e:57058b**
— Surgery on the equatorial immersion. I. **90e:57058a**
Clarke, Francis *see* **Baker, Andrew James; et al., 90c:55003**
Crabb, M. C. (*with* Knapp, K.) The Hurewicz map on stunted complex projective spaces. **90d:55024**
Knapp, K. Stably spherical classes in the K-homology of a finite group. **90a:55012**
— *see also* **Crabb, M. C., 90d:55024**
Kulich, James A quotient of the iterated Singer construction. **90j:55026**
Ratto, Andrea Harmonic maps of spheres and the Hopf construction. **90j:58035**
Ray, Nigel *see* **Baker, Andrew James; et al., 90c:55003**
Schwartz, Lionel *see* **Baker, Andrew James; et al., 90c:55003**

55Q15 Whitehead products and generalizations

Hardie, K. A. A note on products of the Whitehead type. **90g:55012**
— (*with* Jansen, A. V.) A Whitehead product for track groups. **90j:55020**
Jansen, A. V. *see* **Hardie, K. A., 90j:55020**
Lin, Wên Hsiung Projectivity of the Whitehead product in spheres. **90m:55013**

Items with secondary classifications in 55Q15

Markl, Martin On the rational homotopy Lie algebra of spaces with finite-dimensional rational cohomology and homotopy. (French summary) **90h:55018**

55Q25 Hopf invariants

Moore, John C. (*with* Neisendorfer, Joseph) Equivalence of Toda-Hopf invariants. **90g:55013**
Neisendorfer, Joseph *see* **Moore, John C., 90g:55013**

Items with secondary classifications in 55Q25

Govindarajan, T. R. (*with* Shankar, Ramachandran) Novel topological features of the O(3) nonlinear sigma model in $2+1$ dimensions. **90g:81235**
Shankar, Ramachandran *see* **Govindarajan, T. R., 90g:81235**

55Q30 Homotopy groups of triads, n-ads

Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. **90k:55018**

55Q35 Operations in homotopy groups

Klippenstein, John (*with* Snaith, Victor) A conjecture of Barratt-Jones-Mahowald concerning framed manifolds having Kervaire invariant one. **90c:55011**
Snaith, Victor *see* **Klippenstein, John, 90c:55011**

Items with secondary classifications in 55Q35

Blanc, David A. A Hurewicz spectral sequence for homology. **90f:55028**

55Q40 Homotopy groups of spheres

Gray, Brayton Homotopy commutativity and the EHP sequence. **90i:55025**
Ravenel, Douglas C. Homotopy groups of spheres on a small computer. **90e:55028**
Thompson, Robert D. The v_1-periodic homotopy groups of an unstable sphere at odd primes. **90j:55021**

Items with secondary classifications in 55Q40

Cherenack, Paul Algebraic $\pi_2(S^2)$. **90a:14025**
Curtis, Edward (*with* Mahowald, Mark) *EHP computations of* $E_2(S^n)$. **90e:55034**
Dylawerski, Grzegorz An S^1-degree and S^1-maps between representation spheres. **90a:57055**
Lin, Jin Kun Second periodicity elements in the stable homotopy groups of spheres. **90a:55020**
Lin, Wên Hsiung Projectivity of the Whitehead product in spheres. **90m:55013**
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Sadofsky, Hal Higher p-torsion in the β-family. **90g:55011**
Selick, P. S. Moore conjectures. **90c:55014**
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— Triviality of products of β-elements in the stable homotopy group of spheres. **90c:55012**

55Q45 Stable homotopy

Lin, Jin Kun Second periodicity elements in the stable homotopy groups of spheres. **90a:55020**
Shimomura, Katsumi On the products $\beta_s\beta_t$ in the stable homotopy groups of spheres. **90j:55022**
— Triviality of products of β-elements in the stable homotopy group of spheres. **90c:55012**
Singhof, W. Einige Beziehungen zwischen stabiler Homotopietheorie und Zahlentheorie. [Some relationships between stable homotopy theory and number theory] **90d:55023**

Items with secondary classifications in 55Q45

Iriye, Kouyemon On images of the fixed-point homomorphism in the Z/p-equivariant stable homotopy groups. **90b:55005**
Klippenstein, John (*with* Snaith, Victor) A conjecture of Barratt-Jones-Mahowald concerning framed manifolds having Kervaire invariant one. **90c:55011**
Snaith, Victor *see* **Klippenstein, John, 90c:55011**

55Q50 The J-morphism [see also 19L20]

Charney, R. M. (*with* Cohen, Frederick R.) A stable splitting for the mapping class group. **90a:55021**
Cohen, Frederick R. (*with* Peterson, F. P.) Some remarks on the space Im J. **90b:55004**
— *see also* **Charney, R. M., 90a:55021**
Davis, Donald M. (*with* Mahowald, Mark) The image of the stable J-homomorphism. **90c:55013**
Kôno, Susumu (*with* Tamamura, Akie) J-groups of suspensions of stunted lens spaces mod 4. **90m:55014**
Mahowald, Mark *see* **Davis, Donald M., 90c:55013**
Peterson, F. P. *see* **Cohen, Frederick R., 90b:55004**
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Items with secondary classifications in 55Q50

Baker, Andrew James (*with* Clarke, Francis; Ray, Nigel; Schwartz, Lionel) On the Kummer congruences and the stable homotopy of BU. **90c:55003**
Clarke, Francis *see* **Baker, Andrew James; et al., 90c:55003**
Husseini, S. Y. G^∞-fiber homotopy equivalence. **90k:57043**
Jeandupeux, Denis Sur la cohomologie entière du groupe linéaire général et du groupe linéaire spécial sur un corps fini. (English summary) [On the integral cohomology of the general linear and special linear groups over a finite field] **90i:20055**
Kobayashi, Teiichi On the J-group of the quaternionic spherical space form S^{4n+3}/H_3. **90f:55008**
Komatsu, Kazushi The order of the canonical element in $\widetilde{J}(N^n(4))$ and an application. **90e:55008**
Ray, Nigel *see* **Baker, Andrew James; et al., 90c:55003**
Schwartz, Lionel *see* **Baker, Andrew James; et al., 90c:55003**

55Q52 Homotopy groups of special spaces

Crabb, M. C. (*with* Knapp, K.) The Hurewicz map on stunted complex projective spaces. **90d:55024**
— (*with* Knapp, K.) James numbers. **90a:55022**
Davis, Donald M. (*with* Mahowald, Mark) The SO(n)-of-origin. **90h:55021**
Imaoka, Mitsunori On the Adams filtration of a generator of the free part of $\pi_*^s(Q_n)$. **90h:55022**
Knapp, K. *see* **Crabb, M. C., 90a:55022** *and* **90d:55024**
Mahowald, Mark *see* **Davis, Donald M., 90h:55021**
Selick, P. S. Moore conjectures. **90c:55014**
Shitanda, Yoshimi On the homotopy groups of $\mathrm{Map}_*(BH, X)$. **90a:55023**
Thompson, Robert D. Unstable v_1-periodic homotopy groups of a Moore space. **90e:55029**
Weld, Kathryn Computability, homotopy and twisted Cartesian products. **90g:55014**

Items with secondary classifications in 55Q52

Church, P. T. (*with* Timourian, J. G.) Critical values of Fredholm maps. **90c:58027**
Lawson, H. Blaine, Jr. (*with* Michelsohn, Marie-Louise) Algebraic cycles, Bott periodicity and the Chern characteristic map. **90d:14010**
Michelsohn, Marie-Louise *see* **Lawson, H. Blaine, Jr., 90d:14010**
Okubo, Susumu (*with* Zhang, Huazhong) Global gauge anomaly of classical groups in eve dimension. **90m:22050**
Suciu, Alexander I. Iterated spinning and homology spheres. **90m:57014**
Timourian, J. G. *see* **Church, P. T., 90c:58027**
Zhang, Huazhong *see* **Okubo, Susumu, 90m:22050**

55Q55 Cohomotopy groups

Khazhomiya, S. M. Some properties of functors that are dual to homotopy functors. (Russian. English summary) **90k:55019**
Ōshima, Hideaki Codegree of simple Lie groups. **90m:55015**

Items with secondary classifications in 55Q55

Bauer, Stefan On the Segal conjecture for compact Lie groups. **90j:55023**
van der Kallen, Wilberd A module structure on certain orbit sets of unimodular rows. **90b:18013**
Maruyama, Ken-ichi e-invariants on the stable cohomotopy groups of Lie groups. **90a:55032**

55Q70 Homotopy groups of special types [see also 55N05, 55N07]

Hernández, L. J. (*with* Porter, Timothy) Global analogues of the Brown-Grossman prope homotopy groups of an end. **90h:55023**
Porter, Timothy *see* **Hernández, L. J., 90h:55023**

Items with secondary classifications in 55Q70

Cammaroto, F. (*with* Carini, L.) On regular homotopy of a finite simplicial complex. (Italian summary) **90f:57030**
Carini, L. *see* **Cammaroto, F., 90f:57030**

55Q91 Equivariant homotopy groups

Iriye, Kouyemon On images of the fixed-point homomorphism in the Z/p-equivariant stab homotopy groups. **90b:55005**

Items with secondary classifications in 55Q91

Dylawerski, Grzegorz An S^1-degree and S^1-maps between representation spheres. **90a:57055**

55Q99 None of the above, but in this section

Demaria, Davide Carlo On some applications of homotopy to directed graphs. (Italian. English summary) **90i:55026**

Items with secondary classifications in 55Q99

Hayashi, Kiyoshi Abhomotopy groups and creation-annihilation of defects in ordered media. **90d:82052**
Howie, James The quotient of a free product of groups by a single high-powered relator. I Pictures. Fifth and higher powers. **90j:20055**
Zhao, Wan Zhong Fundamantal groups of fuzzy topological spaces. (Chinese) **90j:54007**

55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

Berrick, A. J. Fibrations with Hopfian properties. **90i:55027**
Dyer, Eldon (*with* Eilenberg, Samuel) Globalizing fibrations by schedules. **90a:55024**
Eilenberg, Samuel *see* **Dyer, Eldon, 90a:55024**
Ghazal, Tahsin Some remarks on the orientability of spherical fibrations. (Arabic summar **90a:55025**
Kono, Akira (*with* Shiga, Hiroo; Tezuka, Michishige) A note on the cohomology of a fibe space whose fiber is a homogeneous space. **90i:55028**
Shiga, Hiroo *see* **Kono, Akira; et al., 90i:55028**
Tezuka, Michishige *see* **Kono, Akira; et al., 90i:55028**

Items with secondary classifications in 55R05

Alonso, Juan M. Fibrations that are cofibrations. II. **90e:55014**
Elmendorf, A. D. The Grassmannian geometry of spectra. **90c:55007**
Gray, Brayton On the double suspension. **90f:55014**
Grishina, I. A. *see* **Ivlev, E. T., 90h:53016**
Ivlev, E. T. (*with* Grishina, I. A.) On the fibration of a family of projective nondegenerat null-pairs. **90h:53016**
Kibler, M. *see* **Lambert, Dominique, 90j:58049**
Kim, Byung Hak Fibred Riemannian spaces with contact structure. **90c:53089**
Kozlowski, Andrzej^2 Transfers in the group of multiplicative units of the classical cohom ogy ring and Stiefel-Whitney classes. **90i:55004**

Lambert, Dominique (*with* Kibler, M.) Levi-Civita, Kustaanheimo-Stiefel and other transformations. **90j:58049**

Mackenzie, Kirill On extensions of principal bundles. **90j:53053**

Shandra, I. G. Horizontally equidistant fibre spaces. **90e:53032**

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West, James *see* **Toruńczyk, H., 90a:57026**

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Møller, Jesper Michael Polynomial complements. **90e:55030**

Tulczyjew, W. M. (*with* Urbański, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) **90g:55015**

Urbański, P. *see* **Tulczyjew, W. M.; et al., 90g:55015**

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Futaki, Akito (*with* Tsuboi, Kenji) On some integral invariants, Lefschetz numbers and induction maps. **90e:58148**

Ghys, Étienne *see* **Hector, Gilbert; et al., 90g:57024**

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Kolář, Ivan (*with* Slovák, Jan) On the geometric functors on manifolds. **90j:58002**

Kono, Akira (*with* Shiga, Hiroo; Tezuka, Michishige) A note on the cohomology of a fiber space whose fiber is a homogeneous space. **90i:55028**

Laquer, H. Turner Invariant gauge automorphisms of homogeneous principal bundles. **90m:53044**

Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds modelled on principal bundles. **90f:57041**

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Michor, Peter W. Gauge theory for diffeomorphism groups. **90f:58022**

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Baker, Andrew James (*with* Carlisle, David; Gray, Brayton; Hilditch, S.; Ray, Nigel; Wood, R. M. W.) On the iterated complex transfer. **90d:55021**

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Gonçalves, D. L. *see* **Crabb, M. C., 90a:55026**

Morgan, Christopher Charles Gradige (*with* Piccinini, Renzo A.) Conjugacy classes of groups of bundle automorphisms. **90i:55029**

Piccinini, Renzo A. *see* **Morgan, Christopher Charles Gradige, 90i:55029**

55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

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Mazzeo, Rafe R. (*with* Melrose, Richard B.) The adiabatic limit, Hodge cohomology and Leray's spectral sequence for a fibration. **90m:58004**

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55R25 Sphere bundles and vector space bundles

Ishimoto, Hiroyasu On an extension of the James-Whitehead theorem about sphere bundles over spheres. **90d:55025**

Radu, F. Applications et morphismes de fibrés vectoriels avec structures particulières. [Mappings and morphisms of vector bundles with particular structures] **90i:55030**

Samsonowicz, Jan Kernels of vector bundles morphisms. **90c:55015**

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Nakaoka, Minoru Parametrized Borsuk-Ulam theorems and characteristic polynomials. **90k:55005**

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Frohliger, John A. Maximal homotopy Lie subgroups of maximal rank. **90c:55016**

Gray, Brayton (*with* Ray, Nigel) Splitting CP^∞ and $B\mathrm{Z}/p^n$ into Thom spectra. **90i:55031**

Harris, John C. A stable decomposition of $B\mathrm{SD}_{16}$. **90e:55031**

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Carlisle, David (*with* Kuhn, Nicholas J.) Smash products of summands of $B(\mathrm{Z}/p)^n{}_+$. **90i:55017**

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Hubbuck, J. R. (*with* Mimura, Mamoru) The number of mod p $A(p)$-spaces. **90a:55018**

Iwase, Norio (*with* Mimura, Mamoru) Higher homotopy associativity. **90f:55017**

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Shitanda, Yoshimi On the homotopy groups of $\mathrm{Map}_*(BH, X)$. **90a:55023**

Zaldivar, Felipe The stable homotopy of $B\mathrm{Z}/4$. **90h:55020**

55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

Lu, Ning A universal bundle map and characteristic classes. **90f:55024**

Mislin, Guido On the characteristic ring of flat bundles defined over a number field. **90i:55032**

Papastavridis, Stavros The image of $H_*(B\mathrm{SO}; Z_2)$ in $H_*(B\mathrm{O}; Z_2)$. **90m:55017**

— The image of $H_*(B\mathrm{SU}; Z_p)$ in $H_*(B\mathrm{U}; Z_p)$. **90m:55018**

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Henn, Hans-Werner (*with* Lannes, Jean; Schwartz, Lionel) Analytic functors, unstable algebras and cohomology of classifying spaces. **90j:55025**

Huebschmann, Johannes Change of rings and characteristic classes. **90h:18015**

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Snaith, Victor ★ Topological methods in Galois representation theory. **90f:12005**
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55R45 Homology and homotopy of BO and BU; Bott periodicity [see also 19L99]

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Jaworowski, Jan Maps of Stiefel manifolds and a Borsuk-Ulam theorem. **90k:55003**
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Rao, Vidhyanath On the Morava K-theories of SO$(2n+1)$. **90k:55011**

55R50 Stable classes of vector space bundles, K-theory [see also 19L99] {For algebraic K-theory, see 18F25, 19–XX.}

Ajetunmobi, M. O. Some results on the real K-theory of certain homogeneous spaces. **90a:55028**
Fredricks, Gregory A. (*with* Gilkey, Peter B.; Parker, Phillip E.) A higher order invariant of differential manifolds. **90h:55025**
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Rivadeneyra Pérez, Juan J. The order and the characteristic classes of a stable vector bundle. **90d:55027**

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(Anderson, Donald W.) *see* **Atiyah, Michael, 90m:18011**
Atiyah, Michael ★ K-theory. **90m:18011**
Freitas, Raphaël K-théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] **90j:55009**
Ghazal, Tahsin Some remarks on the orientability of spherical fibrations. (Arabic summary) **90a:55025**
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Kobayashi, Teiichi The orders of the canonical elements in $\widetilde{K}(L^n(2^r))$ and an application. **90k:55010**
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Markl, Martin The real K-ring of some CW-complexes of small dimension. **90a:55014**
Minami, Haruo The real K-groups of SO(n) for $n \equiv 2 \bmod 4$. **90m:55006**
Ribeiro, C. F. M. KO-groups of the Stiefel manifolds $V_{n,4}$ and $V_{n,5}$. **90g:55003**
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55R55 Fiberings with singularities

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55R65 Generalizations of fiber spaces and bundles

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Dyer, Eldon (*with* Eilenberg, Samuel) Globalizing fibrations by schedules. **90a:55024**
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Taylor, Laurence R. *see* **Bödigheimer, C.-F.; et al., 90h:57031**
Ulrich, Hanno ★ Fixed point theory of parametrized equivariant maps. **90h:57045**

55R91 Equivariant fiber spaces and bundles

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Sardanashvili, G. A. (*with* Zakharov, O.) Gauge transformations in gravitation theory. **90k:53116**
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55R99 None of the above, but in this section

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Yang, Hua Jian Fiber bundle expressions for cobordism classes. (Chinese) (Not in MR)

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Carlip, Steven (*with* DeWitt-Morette, Cécile) Where the sign of the metric makes a difference. **90m:81096a**
— (*with* DeWitt-Morette, Cécile) Erratum: "Where the sign of the metric makes a difference". **90m:81096b**
Cohen, Frederick R. *see* **Bödigheimer, C.-F., 90e:57075**
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Dwyer, W. G. (*with* Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. **90i:55034**
Kucharz, W. How to make vector bundles algebraic. **90m:14018**
Miller, Haynes *see* **Dwyer, W. G.; et al., 90i:55034**
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55Sxx Operations and obstructions

55S05 Primary cohomology operations

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55S10 Steenrod algebra

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Carlisle, David (*with* Kuhn, Nicholas J.) Subalgebras of the Steenrod algebra and the actio of matrices on truncated polynomial algebras. **90c:55018**
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— Classifying spaces with injective mod p cohomology. **90d:55028**
Inoue, Kouichi On a geometric realization of $\mathscr{A}(2)$. **90a:55029**
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Kulich, James A quotient of the iterated Singer construction. **90j:55026**
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— *see also* **Henn, Hans-Werner; et al., 90j:55025**
Lin, Wên Hsiung A Koszul algebra whose cohomology is the E_3-term of the May spectral sequence for the Steenrod algebra. **90k:55021**
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Nguyen Nam Hai (*with* Nguyễn Hữu Việt Hưng) Steenrod operations on mod 2 homolog of the iterated loop space. **90m:55019**
Oruç, Melda Yaman The equivariant Steenrod algebra. **90h:55028**
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Cohen, Frederick R. (*with* Peterson, F. P.) Some remarks on the space Im J. **90b:55004**
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Singer, William M. The transfer in homological algebra. **90i:55035**
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55S12 Dyer-Lashof operations

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55S15 Symmetric products, cyclic products

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55S20 Secondary and higher cohomology operations

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55S25 K-theory operations and generalized cohomology operations [see also 19D99, 19L99]

Baker, Andrew James Some families of operations in Morava K-theory. **90d:55030**
tom Dieck, Tammo The Artin-Hasse logarithm for λ-rings. **90d:55031**
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Kwak, Jin Ho (*with* Hong, Sungpyo; Sohn, Moo Young) Nonembeddability and nonimmersibility of a product Dold manifold. **90f:57036**
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Ribeiro, C. F. M. KO-groups of the Stiefel manifolds $V_{n,4}$ and $V_{n,5}$. **90g:55003**
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55S30 Massey products

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Dwyer, W. G. (*with* Kan, D. M.) Hochschild-Mitchell cohomology of simplicial categories and the cohomology of simplicial diagrams of simplicial sets. **90g:18011**
Hájíček, Petr Reducibility of parametrized systems. **90b:83039**
Kan, D. M. *see* **Dwyer, W. G., 90g:18011**
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55S36 Extension and compression of mappings

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55S37 Classification of mappings

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55S40 Sectioning fiber spaces and bundles

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55S45 Postnikov systems, k-invariants

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— The first k-invariant of a double loop space is trivial. **90j:55028**
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Items with secondary classifications in 55S45

Arlettaz, Dominique Characteristic classes and obstruction theory for infinite loop spaces. **90f:55027**
Smith, Justin R. Topological realizations of chain complexes. II. The rational case. **90k:55022**
Weld, Kathryn Computability, homotopy and twisted Cartesian products. **90g:55014**

55S91 Equivariant operations and obstructions

Items with secondary classifications in 55S91

Dror Farjoun, Emmanuel (*with* Zabrodsky, Alexander) Fixed points and homotopy fixed points. **90e:55025**
Zabrodsky, Alexander *see* **Dror Farjoun, Emmanuel, 90e:55025**

55S99 None of the above, but in this section

Smirnov, V. A.^{2} Functional homology operations and weak homotopy type. **90h:55033**

Items with secondary classifications in 55S99

Ramsay, John R. Extensions of Ljusternik-Schnirelmann category theory to relative and equivariant theories with an application to an equivariant critical point theorem. **90e:55005**

55Txx Spectral sequences [see also 18G40, 55R20]

55T05 General

Items with secondary classifications in 55T05

Jardine, J. F. The Leray spectral sequence. **90k:18020**

55T15 Adams spectral sequences

Curtis, Edward (*with* Mahowald, Mark) *EHP* computations of $E_2(S^n)$. **90e:55034**
Dwyer, W. G. (*with* Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. **90i:55034**
Hikida, Mizuho Relations between several Adams spectral sequences. **90h:55034**
Mahowald, Mark *see* **Curtis, Edward, 90e:55034**
Miller, Haynes *see* **Dwyer, W. G.; et al., 90i:55034**
Neisendorfer, Joseph *see* **Dwyer, W. G.; et al., 90i:55034**
Singer, William M. The transfer in homological algebra. **90i:55035**

Items with secondary classifications in 55T15

Davis, Donald M. (*with* Mahowald, Mark) The image of the stable J-homomorphism. **90c:55013**
Imaoka, Mitsunori On the Adams filtration of a generator of the free part of $\pi_*^s(Q_n)$. **90h:55022**
Lin, Jin Kun Second periodicity elements in the stable homotopy groups of spheres. **90a:55020**
Mahowald, Mark *see* **Davis, Donald M., 90c:55013**
Sadofsky, Hal Higher p-torsion in the β-family. **90g:55011**
Shimomura, Katsumi On the products $\beta_s\beta_t$ in the stable homotopy groups of spheres. **90j:55022**
Thompson, Robert D. Unstable v_1-periodic homotopy groups of a Moore space. **90e:55029**
Zhou, Xue Guang Higher cohomology operations that detect homotopy classes. **90g:55017**

55T25 Generalized cohomology

Items with secondary classifications in 55T25

Klippenstein, John The bu cohomology of BP(n). **90g:55004**
Rao, Vidhyanath On the Morava K-theories of SO($2n+1$). **90k:55011**

55T99 None of the above, but in this section

Blanc, David A. A Hurewicz spectral sequence for homology. **90f:55028**

Items with secondary classifications in 55T99

Alvarez López, Jesús A. Duality in the spectral sequence of Riemannian foliations. **90k:58004**
Costinescu, Cristian Nicolae The Z_8-graded structure of KO*(Sp(n)) groups. (Romanian) **90d:55006**
— K-théorie complexe de certains U(n)-espaces. [Complex K-theory of certain U(n)-spaces] **90e:55007**
Dydak, Jerzy (*with* Walsh, John J.) Cohomological local connectedness of decomposition spaces. **90e:55012**
Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. **90k:18021**
Lin, Wên Hsiung A Koszul algebra whose cohomology is the E_3-term of the May spectral sequence for the Steenrod algebra. **90k:55021**
Pittie, Harsh V. The nondegeneration of the Hodge-de Rham spectral sequence. **90b:32062**
Prasolov, A. V. A spectral sequence for strong homology. (Serbo-Croatian summary) **90m:18014**
Shitanda, Yoshimi On the Maunder type theorems in the ex-homotopy category. **90k:55023**
Walsh, John J. *see* **Dydak, Jerzy, 90e:55012**

55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

Items with secondary classifications in 55U05

Gilbert, N. D. (*with* Higgins, P. J.) The nonabelian tensor product of groups and related constructions. **90e:20026**

Higgins, P. J. *see* **Gilbert, N. D., 90e:20026**

55U10 Semisimplicial complexes

Dwyer, W. G. (*with* Kan, D. M.) Homology with simplicial coefficients. **90d:55034**

Jardine, J. F. The homotopical foundations of algebraic K-theory. **90j:55029**

Kan, D. M. *see* **Dwyer, W. G., 90d:55034**

Items with secondary classifications in 55U10

Andrzejczak, Grzegorz On some sheaf cohomology of semi-simplicial manifolds and their realizations. **90k:55013**

Brown, Edgar H., Jr. (*with* Szczarba, Robert H.) On real homotopy theory. **90e:55022**

Dwyer, W. G. (*with* Kan, D. M.; Smith, Jeffrey Henderson) Homotopy commutative diagrams and their realizations. **90d:18007**

Irmatov, A. A. (*with* Trofimov, V. A.) Homology of complete Brouwer lattices. **90j:18006**

Kan, D. M. *see* **Dwyer, W. G.; et al., 90d:18007**

Khusainov, A. A. Cohomology of small categories with coefficients in an abelian category with exact products. **90k:18021**

Makharadze, L. M. Commutativity of the homotopy functor with the inverse limit of simplicial sets. (Russian) **90c:55009**

Nan Tie, Gary A Dold-Kan theorem for crossed complexes. **90e:18013**

— Iterated $\overline{W}$ and T-groupoids. **90e:18014**

Smith, Jeffrey Henderson *see* **Dwyer, W. G.; et al., 90d:18007**

Szczarba, Robert H. *see* **Brown, Edgar H., Jr., 90e:55022**

Trofimov, V. A. *see* **Irmatov, A. A., 90j:18006**

55U15 Chain complexes

Smith, Justin R. Topological realizations of chain complexes. II. The rational case. **90k:55022**

Items with secondary classifications in 55U15

Bourn, Dominique Pseudofunctors and nonabelian weak equivalences. **90b:18016**

Brown, Ronald (*with* Higgins, P. J.) Crossed complexes and chain complexes with operators. **90j:55030**

Cenkl, Bohumil Cohomology operations from higher products in the de Rham complex. **90g:55016**

Higgins, P. J. *see* **Brown, Ronald, 90j:55030**

Ouadghiri, A. Un modèle de Sullivan en homotopie modérée. [A Sullivan model in tame homotopy] **90f:55006**

Scheerer, Hans Report on tame homotopy theory via differential forms. **90f:55007**

Stora, Raymond Differential algebras in field theory and their anomalies: two examples. **90e:58006**

55U30 Duality

Items with secondary classifications in 55U30

Khazhomiya, S. M. Some properties of functors that are dual to homotopy functors. (Russian. English summary) **90k:55019**

55U35 Abstract homotopy theory

Brown, Ronald (*with* Higgins, P. J.) Crossed complexes and chain complexes with operators. **90j:55030**

Higgins, P. J. *see* **Brown, Ronald, 90j:55030**

Rodríguez-Machín, Sergio Homotopy in additive categories. (Spanish. English summary) **90f:55029**

Shitanda, Yoshimi On the Maunder type theorems in the ex-homotopy category. **90k:55023**

Items with secondary classifications in 55U35

Brown, Ronald (*with* Golasiński, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) **90f:18012**

Golasiński, Marek *see* **Brown, Ronald, 90f:18012**

Hardie, K. A. (*with* Kamps, K. H.) Track homotopy over a fixed space. (Serbo-Croatian summary) **90k:55020**

Hurwitz, Carol M. On the homotopy theory of monoids. **90i:20072**

Kamps, K. H. *see* **Hardie, K. A., 90k:55020**

55U40 Topological categories

Items with secondary classifications in 55U40

Iwase, Norio A continuous localization and completion. **90k:55015**

55U99 None of the above, but in this section

Savel'ev, I. V. Polyhedra and algebraic sets. **90h:55035**

Yun, Dall Sun The cup and cap product of simplicial modules. **90e:55035**

Items with secondary classifications in 55U99

Aznar García, Enrique R. *see* **Lirola Terrez, Antonio; et al., 90e:18012**

Brown, Ronald Triadic Van Kampen theorems and Hurewicz theorems. **90k:55018**

— (*with* Golasiński, Marek) A model structure for the homotopy theory of crossed complexes. (French summary) **90f:18012**

— (*with* Gilbert, N. D.) Algebraic models of 3-types and automorphism structures for crossed modules. **90e:18015**

Bullejos, M. *see* **Lirola Terrez, Antonio; et al., 90e:18012**

Gilbert, N. D. *see* **Brown, Ronald, 90e:18015**

Golasiński, Marek *see* **Brown, Ronald, 90f:18012**

Guitart, René L'unité de la théorie des modèles et de l'algèbre homologique. (English summary) [The unity of model theory and homological algebra] **90m:18009**

Lirola Terrez, Antonio (*with* Aznar García, Enrique R.; Bullejos, M.) The cohomology groups of an epimorphism. **90e:18012**

Meyer, Jean-Pierre Cosimplicial homotopies. **90d:55016**

Quillen, Daniel Algebra cochains and cyclic cohomology. **90j:18008**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57–01 Elementary exposition; textbooks

Items with secondary classifications in 57–01

Jänich, Klaus ★ Topologie. (German) [Topology] **90m:54002**

57–02 Advanced exposition (research surveys, monographs, etc.)

(Guillou, Lucien) *see* **Remembrance of topology past, 90m:57001**

(Gurevich, A. A.) *see* **Remembrance of topology past, 90m:57001**

(Marin, Alexis) *see* **Remembrance of topology past, 90m:57001**

(Rokhlin, V. A.) *see* **Remembrance of topology past, 90m:57001**

(Viro, O. Ya.) *see* **Remembrance of topology past, 90m:57001**

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Items with secondary classifications in 57–02

Adams, J. F. Problem session for homotopy theory. **90f:55001**

(Anderson, Donald W.) *see* **Atiyah, Michael, 90m:18011**

(Anosov, D. V.) *see* **Pontryagin, L. S., 90c:01140**

Atiyah, Michael The impact of physics on geometry. **90d:00055**

— ★ K-theory. **90m:18011**

Dieudonné, Jean ★ A history of algebraic and differential topology. 1900–1960. **90g:01029**

(Gamkrelidze, R. V.) *see* **Pontryagin, L. S., 90c:01140** *and* **Current problems in mathematics. Fundamental directions, 90g:55001**

(Mishchenko, E. F.) *see* **Pontryagin, L. S., 90c:01140**

Narasimhan, M. S. Topology of compact simply connected smooth four-manifolds. **90i:57009**

Pontryagin, L. S. ★ Избранные научные труды. Том I. (Russian) [Selected scientific works. Vol. I] **90c:01140**

(Postnikov, M. M.) *see* **Pontryagin, L. S., 90c:01140**

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Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 24. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 24] **90g:55001**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 57–03

Dieudonné, Jean ★ A history of algebraic and differential topology. 1900–1960. **90g:01029**

Étienne, Émile Réflexions autour du théorème de Dehn. [Reflections on Dehn's theorem] **90k:01016**

(Guillou, Lucien) *see* **Remembrance of topology past, 90m:57001**

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Haefliger, André Un aperçu de l'œuvre de Thom en topologie différentielle (jusqu'en 1957) [A sketch of Thom's work in differential topology (up to 1957)] **90c:01073**

(Marin, Alexis) *see* **Remembrance of topology past, 90m:57001**

(Rokhlin, V. A.) *see* **Remembrance of topology past, 90m:57001**

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(Viro, O. Ya.) *see* **Remembrance of topology past, 90m:57001**

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57–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57–04

Michels, J. P. J. (*with* Wiegel, Frederik W.) The distribution of Alexander polynomials of knots confined to a thin layer. **90f:82001**
Wiegel, Frederik W. *see* **Michels, J. P. J., 90f:82001**

57–06 Proceedings, conferences, etc.

(Habegger, N.) *see* **Proceedings: Topology Conference, 90b:57001**
(Kawakubo, Katsuo) *see* **Transformation groups, 90a:57002**
(McCrory, C.) *see* **Proceedings: Topology Conference, 90b:57001**

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  Topology ★ Proceedings of the 1987 Georgia Topology Conference. **90b:57001**
  Transformation Groups ★ Transformation groups. **90a:57002**
Lecture Notes in Mathematics ★ Transformation groups. **90a:57002**
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  On the Geometry of Differentiable Manifolds ★ On the geometry of differentiable manifolds. **90a:57001**

Items with secondary classifications in 57–06

(Albert, Claude) *see* **Symplectic and mechanical geometry, 90m:58002**
(James, I. M.) *see* **Advances in homotopy theory, 90m:55001**
(Jiang, Bo Ju) *see* **Topological fixed point theory and applications, 90i:55001**
(Kaminker, J.) *see* **Geometric and topological invariants of elliptic operators, 90k:58206**
(Mahowald, Mark) *see* **Algebraic topology, 90h:55001**
(Priddy, Stewart) *see* **Algebraic topology, 90h:55001**
(Rassias, George M.) *see* **Geometry and topology, 90a:53003**
(Salamon, Simon) *see* **Advances in homotopy theory, 90m:55001**
(Steer, B.) *see* **Advances in homotopy theory, 90m:55001**
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(Sutherland, W. A.) *see* **Advances in homotopy theory, 90m:55001**

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Algebraic topology ★ Algebraic topology. **90h:55001**
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Brunswick, ME ★ Geometric and topological invariants of elliptic operators. **90k:58206**
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57Mxx Low-dimensional topology (old 55Axx)

57M05 Fundamental group, presentations, free differential calculus

Lins, Sóstenes Invariant groups on equivalent crystallizations. **90k:57001**
Orlik, Peter (*with* Solomon, Louis) Braids and discriminants. **90g:57001**
Scott, Peter (*with* Swarup, Gadde) Geometric finiteness of certain Kleinian groups. **90k:57002**
Solomon, Louis *see* **Orlik, Peter, 90g:57001**
Sprows, David J. A note on the presentations of isotopy groups of bounded 2-manifolds. **90j:57001**
Swarup, Gadde *see* **Scott, Peter, 90k:57002**
Torriani, Hugo H. Subgroups of the Klein bottle group and the mapping class group of the Klein bottle. **90g:57002**

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Gromov, Mikhael L. Sur le groupe fondamental d'une variété kählérienne. (English summary) [On the fundamental group of a Kähler manifold] **90i:53090**
Gu, Zhi-Bin Hyperbolic surfaces and quadratic equations in groups. **90g:20053**
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Paternain, Miguel Expansive flows and the fundamental group. **90m:58160**
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57M10 Covering spaces

Baker, Mark D. Covers of Dehn fillings on once-punctured torus bundles. **90e:57001**
Grigorchuk, R. I. Topological and metric types of surfaces that regularly cover a closed surface. **90j:57002**
Hansen, Vagn Lundsgaard Polynomial covering maps. **90c:57001**

Items with secondary classifications in 57M10

Brin, Matthew G. (*with* Thickstun, T. L.) 3-manifolds which are end 1-movable. **90g:57015**
Burde, Gerhard Links covering knots with two bridges. **90e:57007**
Doyle, Peter G. On the bass note of a Schottky group. **90b:30053**
Hass, Joel Surfaces minimizing area in their homology class and group actions on 3-manifolds. **90d:57017**
Kuperberg, Krystyna On the bihomogeneity problem of Knaster. **90m:54043**
Luecke, J. Finite covers of 3-manifolds containing essential tori. **90c:57011**

Tanasi, Corrado The Euler-Poincaré characteristic of two-dimensional orbifolds. (Italian. English summary) **90e:57022**

Thickstun, T. L. *see* **Brin, Matthew G., 90g:57015**

57M12 Special coverings, e.g. branched

Casali, Maria Rita Fundamental groups of branched covering spaces of S^3. (Italian summary) **90a:57003**

— (*with* Grasselli, Luigi) Representing branched coverings by edge-coloured graphs. **90m:57002**

Gersten, S. M. Branched coverings of 2-complexes and diagrammatic reducibility. **90a:57004**

Grasselli, Luigi Branched coverings of the 3-sphere. (Italian. English summary) **90c:57002**

— *see also* **Casali, Maria Rita, 90m:57002**

Petersen, Peter, V Fatness of covers. **90m:57003**

Protopopov, A. N. Topological classification of branched coverings of a two-dimensional sphere. (Russian. English summary) **90g:57003**

Items with secondary classifications in 57M12

Boileau, Michel (*with* Zimmermann, B.) The π-orbifold group of a link. **90a:57005**

Kirk, Paul A. Mutations of homology spheres and Casson's invariant. **90a:57019**

Kobayashi, Masako Rational homology 3-spheres with orientation reversing involution. **90d:57019**

Lanteri, Antonio (*with* Struppa, Daniele C.) Topological properties of cyclic coverings branched along an ample divisor. **90i:14021**

Struppa, Daniele C. *see* **Lanteri, Antonio, 90i:14021**

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57M15 Relations with graph theory [see also 05Cxx]

Chiavacci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) **90e:57002**

Cohen, Marshall M. (*with* Lustig, Martin) On the dynamics and the fixed subgroup of a free group automorphism. **90m:57004**

Gurvich, V. A. (*with* Shabat, G. B.) Maps of surfaces and their schemes. **90h:57001**

Hartsfield, Nora (*with* Ringel, Gerhard) Minimal quadrangulations of nonorientable surfaces. **90j:57003**

Lustig, Martin *see* **Cohen, Marshall M., 90m:57004**

Ringel, Gerhard *see* **Hartsfield, Nora, 90j:57003**

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Yamada, Shuji An invariant of spatial graphs. **90j:57004**

Items with secondary classifications in 57M15

Barnette, D. W. Unique embeddings of simple projective plane polyhedral maps. **90i:05033**

Borodin, O. V. Representing of K_{13} as a 2-pire map on the Klein bottle. **90d:05084**

Demaria, Davide Carlo On some applications of homotopy to directed graphs. (Italian. English summary) **90i:55026**

Droms, Carl *see* **Servatius, Herman; et al., 90f:20052**

Grasselli, Luigi Branched coverings of the 3-sphere. (Italian. English summary) **90c:57002**

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57M25 Knots and links in S^3 {For higher dimensions, see 57Q45.}

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57M30 Wild knots and surfaces, etc., wild imbeddings

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57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity

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57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [see also 57N12]

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Zimmermann, B. *see* **Miller, Andy, 90a:57015** *and* **McCullough, Darryl; et al., 90h:57014**

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Brumfiel, G. W. The real spectrum compactification of Teichmüller space. **90b:32042**
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Elkholy, E. A note on: "The degree of isometric foldings of Riemannian manifolds with boundary". (Arabic summary) **90d:53048**
Fathi, Albert Some compact invariant sets for hyperbolic linear automorphisms of torii [tori]. **90j:58116**
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Grasse, Patricia J. M. Finite presentation of mapping class groups of certain three-manifolds. **90h:57018**
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Kakimizu, Osamu Cores of noncompact irreducible 3-manifolds. **90d:57018**
Kaveh, A. Topology and skeletal structures. (German and Russian summaries) **90b:73043**
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— The complexity of three-dimensional manifolds and their enumeration in the order of increasing complexity increase. **90a:57020**
McCullough, Darryl (*with* Miller, Andy) Manifold covers of 3-orbifolds with geometric pieces. **90c:57036**
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Norwood, Frederick Hudson Curves on surfaces. **90j:57009**
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Seppälä, Mika ★ Topics on Teichmüller spaces. **90f:32026**
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Torriani, Hugo H. Subgroups of the Klein bottle group and the mapping class group of the Klein bottle. **90g:57002**
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57Nxx Topological manifolds

57N05 Topology of E^2, 2-manifolds

Birman, Joan S. Mapping class groups of surfaces. **90g:57013**
Bloch, Ethan D. Simplexwise linear and piecewise linear near self-homeomorphisms of surfaces. **90e:57023**
Humphries, Stephen P. Free products in mapping class groups generated by Dehn twists. **90e:57024**
— (*with* Johnson, Dennis L.) A generalization of winding number functions on surfaces. **90c:57008**
Johnson, Dennis L. *see* **Humphries, Stephen P., 90c:57008**
Ladegaillerie, Yves Isotopies indépendantes et globales de plusieurs courbes sur une surface. (English summary) [Independent and simultaneous isotopies of several curves on a 2-manifold] **90e:57025**
Lei, Feng Chun Heegaard curves and homology lens spaces. (Chinese. English summary) **90i:57006**
Morita, Shigeyuki On the structure and the homology of the Torelli group. **90h:57015**
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Schrijver, A. Homotopy and crossings of systems of curves on a surface. **90d:57016**
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Archdeacon, Dan (*with* Huneke, John Philip) A Kuratowski theorem for nonorientable surfaces. **90f:05049**
Bârză, Ilie The dianalytic morphisms of the Klein bottles. **90b:30055**
Bonahon, F. The geometry of Teichmüller space via geodesic currents. **90a:32025**
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Cazacu, Cabiria Andreian Complete Klein coverings of Klein surfaces of characteristic 0. I. **90b:30056**
Charlton, H. J. K-R manifolds and one-one maps defined on half-spaces. **90f:57023**
Gehring, F. W. (*with* Martin, G. J.) Iteration theory and inequalities for Kleinian groups. **90k:30086**
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Morgan, John W. Ergodic theory and free actions of groups on **R**-trees. **90d:20069**
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Soma, Teruhiko Geometric convergence for laminated surfaces. **90f:57020**

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57N10 Topology of general 3-manifolds [see also 57Mxx]

Akbulut, Selman (*with* McCarthy, John David) ★ Casson's invariant for oriented homology 3-spheres. **90k:57017**

Ancel, Fredric D. (*with* Starbird, Michael P.) The shrinkability of Bing-Whitehead decompositions. **90g:57014**

Bleiler, Steven (*with* Litherland, Richard A.) Lens spaces and Dehn surgery. **90e:57031**

Bonahon, F. (*with* Siebenmann, L. C.) The characteristic toric splitting of irreducible compact 3-orbifolds. **90a:57017**

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Cardona, Iván (*with* Heil, Wolfgang) Essential tori and Klein bottles in nonorientable 3-manifolds of genus two. **90h:57016**

Casali, Maria Rita A catalogue of the genus two 3-manifolds. **90h:57017**

Chen, Zhong He Two families of simple closed curves on the boundary of a handlebody of genus n. (Chinese. English summary) **90e:57027**

Craggs, R. Freely reducing group readings for 2-complexes in 4-manifolds. **90k:57018**

Csikós, B. Halving surfaces in 3-manifolds. **90c:57009**

Feighn, Mark *see* **McCullough, Darryl, 90m:57011**

Frohman, Charles (*with* Hass, Joel) Unstable minimal surfaces and Heegaard splittings. **90e:57028**

Grasse, Patricia J. M. Finite presentation of mapping class groups of certain three-manifolds. **90h:57018**

Hass, Joel Surfaces minimizing area in their homology class and group actions on 3-manifolds. **90d:57017**

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— (*with* Repovš, D.) An exotic factor of $S^3 \times \mathbf{R}$. **90k:57019**

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Soma, Teruhiko Equivariant surfaces in 3-manifolds with abelian group actions. **90f:57022**

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Kobayashi, Tsuyoshi Generalized unknotting operations and tangle decompositions. **90a:57008**

Lawson, H. Blaine, Jr. *see* **Gromov, Mikhael L.; et al., 90k:57021**

Lu, Ning Haken manifolds associated by mapping classes. **90h:57013**

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— *see also* **Hass, Joel, 90c:53022**

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Witten, Edward Quantum field theory and the Jones polynomial. **90h:57009**

Yetter, David N. Markov algebras. **90h:57011**

57N12 Topology of E^3 and S^3 [see also 57M40]

Charlton, H. J. K-R manifolds and one-one maps defined on half-spaces. **90f:57023**

Wright, David G. Bing-Whitehead Cantor sets. **90d:57020**

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Baker, B. J. (*with* Laidacker, Michael) Embedding uncountably many mutually exclusive continua into Euclidean space. **90j:57014**

Laidacker, Michael *see* **Baker, B. J., 90j:57014**

57N13 Topology of E^4, 4-manifolds [see also 14Jxx, 32Jxx]

Finashin, S. M. (*with* Kreck, M.; Viro, O. Ya.) Nondiffeomorphic but homeomorphic knottings of surfaces in the 4-sphere. **90h:57021**

Freedman, Michael H. Poincaré transversality and four-dimensional surgery. **90a:57022**

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Narasimhan, M. S. Topology of compact simply connected smooth four-manifolds. **90i:57009**

Saeki, Osamu Simply connected 4-manifolds of second Betti number 1 bounded by homology lens spaces. **90i:57010**

Thurston, W. P. *see* **Gromov, Mikhael L.; et al., 90k:57021**

Venema, Gerard A. Neighborhoods of compacta in 4-manifolds. **90a:57023**

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Items with secondary classifications in 57N13

Arapura, Donu A short proof of Rohlin's theorem for complex surfaces. **90g:57022**

Arnol'd, V. I. The branched covering $\mathbf{CP}^2 \to S^4$, hyperbolicity and projective topology. **90a:57037**

Baker, B. J. (*with* Laidacker, Michael) Embedding uncountably many mutually exclusive continua into Euclidean space. **90j:57014**

Boyer, C. P. (*with* Mann, Benjamin M.) Instantons and homotopy. **90f:58031**

Braam, Peter J. (*with* Hurtubise, Jacques) Instantons on Hopf surfaces and monopoles on solid tori. **90i:32039**

tom Dieck, Tammo Symmetric homology planes. **90m:14033**

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Freedman, Michael H. (*with* Lin, Xiao Song^2) On the (A, B)-slice problem. **90b:57002**

Furuta, Mikio The application of gauge theory to topology. (Japanese) **90c:57015**

Gompf, Robert E. Periodic ends and knot concordance. **90f:57004**

Groisser, D. (*with* Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. **90f:58021**

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Lawson, Terry Compactness results for orbifold instantons. **90a:57052**
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Ruberman, Daniel Rational homology cobordisms of rational space forms. **90a:57051**
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Taubes, Clifford Henry Moduli spaces and homotopy theory. **90c:58039**
Ville, Marina Les variétés Riemanniennes de dimension 4 $\frac{4}{19}$-pincées. (English summary) [$\frac{4}{19}$-pinched four-dimensional Riemannian manifolds] **90f:53082**

57N15 Topology of E^n, n-manifolds ($4 < n < \infty$)

Cornea, Octav The genus and the fundamental group of high-dimensional manifolds. **90h:57022**
Cristea, Mihai A generalization of a theorem of Stoilow. **90f:57024**
Farrell, F. T. (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**
— (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
— (*with* Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**
Jones, Lowell Edwin *see* **Farrell, F. T., 90h:57023a; 90h:57023b** *and* **90h:57023c**
Rosenberg, Jonathan Applications of analysis on Lipschitz manifolds. **90e:57034**

Items with secondary classifications in 57N15

Baker, B. J. (*with* Laidacker, Michael) Embedding uncountably many mutually exclusive continua into Euclidean space. **90j:57014**
Cauty, Robert Sur le nombre de côtés d'une sous-variété. (English summary) [On the number of sides of a submanifold] **90h:57024**
Cerasoli, Mauro (*with* Letta, Giorgio) On the Euler-Poincaré characteristic. (Italian. French summary) **90e:52001**
Groisser, D. (*with* Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. **90f:58021**
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Lehmann-Waffenschmidt, Marco Bounding the price space $\mathbf{R}^n_+$ by a collar-preserving homeomorphism. **90c:90039**
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57N17 Topology of topological vector spaces

Items with secondary classifications in 57N17

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57N20 Topology of infinite-dimensional manifolds [see also 58Bxx]

Čerin, Zvonko On a class of group actions of the Hilbert cube. **90b:57006**
Dijkstra, J. J. (*with* Dobrowolski, T.; Marciszewski, Witold; van Mill, Jan; Mogilski, J.) Recent classification and characterization results in geometric topology. **90m:57013**
Dobrowolski, T. *see* **Dijkstra, J. J.; et al., 90m:57013**
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Marciszewski, Witold *see* **Dijkstra, J. J.; et al., 90m:57013**
van Mill, Jan ★ Infinite-dimensional topology. **90a:57025**
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Sakai, Katsuro A mapping theorem for infinite-dimensional manifolds and its generalizations. **90e:57035**
— The space of cross sections of a bundle. **90e:57036**
— (*with* Wong, Raymond Y.) The space of Lipschitz maps from a compactum to a locally convex set. **90j:57013**
— A function space triple of a compact polyhedron into an open set in Euclidean space. **90d:57021**
— (*with* Wong, Raymond Y.) On infinite-dimensional manifold triples. **90g:57017**
Toruńczyk, H. (*with* West, James) Fibrations and bundles with Hilbert cube manifold fibers. **90a:57026**
West, James *see* **Heisey, R. E., 90a:57024** *and* **Toruńczyk, H., 90a:57026**
Wong, Raymond Y. *see* **Sakai, Katsuro, 90g:57017** *and* **90j:57013**

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Chigogidze, A. Ch. Trivial bundles and near-homeomorphisms. **90f:55026**
Dranishnikov, A. N. Homological dimension theory. **90e:55003**
Massabò, Ivar (*with* Vignoli, Alfonso) On the théorème fondamental of J. Leray and J. Schauder. **90j:58028**
Mirzakhanyan, R. È. The infinite iteration of the hyperspace functor. **90f:54020**
Montejano, L. Categorical and contractible covers of polyhedra. **90e:55020**
Rohm, Dale M. Products of infinite-dimensional spaces. **90k:54051**
Sakai, Katsuro (*with* Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. **90a:58019**
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57N25 Shapes [see also 54C56, 54F43, 55P55, 55Q07]

Items with secondary classifications in 57N25

Chigodize, A. Ch. n-shapes and n-cohomotopy groups of compacta. **90f:54056**
Choi, Jung-In K. (*with* Woo, Moo Ha) UV^∞-maps that are fine homotopy equivalences. **90i:55015**
Venema, Gerard A. Neighborhoods of compacta in 4-manifolds. **90a:57023**
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57N35 Imbeddings and immersions

Baker, B. J. (*with* Laidacker, Michael) Embedding uncountably many mutually exclusive continua into Euclidean space. **90j:57014**
Ferry, Steven C. (*with* Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n. **90f:57025**
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Vogel, Pierre *see* **Ferry, Steven C.; et al., 90f:57025**

Items with secondary classifications in 57N35

Bloch, Ethan D. Simplexwise linear and piecewise linear near self-homeomorphisms of surfaces. **90e:57023**
Hopkins, Michael J. Minimal atlases of real projective spaces. **90f:55004**
Prajs, Janusz R. Homogeneous continua in Euclidean $(n+1)$-space which contain an n-cube are n-manifolds. **90f:54055**
Väisälä, Jussi Quasiconformal concordance. **90d:30068**

57N37 Isotopy and pseudo-isotopy

Farrell, F. T. (*with* Jones, Lowell Edwin) Foliated control theory. I, II. **90e:57037**
Jones, Lowell Edwin *see* **Farrell, F. T., 90e:57037**
Maniscalco, I. (*with* Portolano, A.) The space of closed simple curves and measured foliations on noncompact orientable surfaces. (Italian. English summary) **90e:57038**
Portolano, A. *see* **Maniscalco, I., 90e:57038**

Items with secondary classifications in 57N37

Luukkainen, Jouni Respectful deformation of bi-Lipschitz and quasisymmetric embeddings. **90g:57018**
Madsen, I. (*with* Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1}. **90g:57028**
Rothenberg, Melvin *see* **Madsen, I., 90g:57028**

57N40 Neighborhoods of submanifolds

Cauty, Robert Sur le nombre de côtés d'une sous-variété. (English summary) [On the number of sides of a submanifold] **90h:57024**

Items with secondary classifications in 57N40

Farran, H. R. (*with* Robertson, S. A.) Isometric foldings of discs and spheres. **90k:53082**
Robertson, S. A. *see* **Farran, H. R., 90k:53082**

57N45 Flatness and tameness

Singh, Sukhjit^1 Homotopy groups of arc complements in S^n or Q. **90g:57019**

Items with secondary classifications in 57N45

Ferry, Steven C. (*with* Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n. **90f:57025**
Freedman, Michael H. (*with* Skora, Richard K.) Strange actions of groups on spheres. II. **90f:57042**
Jakobsche, W. (*with* Repovš, D.) An exotic factor of $S^3 \times \mathbf{R}$. **90k:57019**
Pedersen, Erik K. *see* **Ferry, Steven C.; et al., 90f:57025**
Repovš, D. *see* **Jakobsche, W., 90k:57019**
Skora, Richard K. *see* **Freedman, Michael H., 90f:57042**
Vogel, Pierre *see* **Ferry, Steven C.; et al., 90f:57025**
Wright, David G. Bing-Whitehead Cantor sets. **90d:57020**

57N55 Microbundles and block bundles [see also 55R60, 57Q50]

Montejano, L. (*with* Rushing, T. B.) Approximating homotopy equivalences by disk bundle projections. (Serbo-Croatian summary) **90a:57027**
Rushing, T. B. *see* **Montejano, L., 90a:57027**

57N60 Cellularity

Daverman, Robert J. (*with* Repovš, D.) A new 3-dimensional shrinking criterion. **90c:57013**
Repovš, D. *see* **Daverman, Robert J., 90c:57013**

Items with secondary classifications in 57N60

Dranishnikov, A. N. Homological dimension theory. **90e:55003**
— On a problem of P. S. Aleksandrov. **90e:55004**
Venema, Gerard A. Neighborhoods of compacta in 4-manifolds. **90a:57023**

57N65 Algebraic topology of manifolds

Hiraide, K. Positively expansive maps and growth of fundamental groups. **90a:57028**
Suciu, Alexander I. Iterated spinning and homology spheres. **90m:57014**

Items with secondary classifications in 57N65

Brin, Matthew G. (*with* Thickstun, T. L.) 3-manifolds which are end 1-movable. **90g:5701**

Hoffman, Michael Edward Noncoincidence index, free group actions, and the fixed point property for manifolds. **90a:55006**
Kannowski, M. Simply connected four-manifolds obtained from weighted homogeneous polynomials. **90i:57008**
Okonek, Christian Fake Enriques surfaces. **90e:57062**
Orlik, Peter ★ Introduction to arrangements. **90i:32018**
Thickstun, T. L. *see* **Brin, Matthew G., 90g:57015**

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57N70 Cobordism and concordance

Cappell, Sylvain E. (*with* Shaneson, Julius L.) On four-dimensional s-cobordisms. II. **90i:57011**
Cochran, Tim D. (*with* Gompf, Robert E.) Applications of Donaldson's theorems to classical knot concordance, homology 3-spheres and property P. **90g:57020**
Gompf, Robert E. *see* **Cochran, Tim D., 90g:57020**
Shaneson, Julius L. *see* **Cappell, Sylvain E., 90i:57011**
Wang, Yan Ying On bordism classes represented by fibrations with fiber $\mathbf{RP}(2k)$. (Chinese) **90d:57022**

Items with secondary classifications in 57N70
Khare, S. S. On Dold manifolds. **90i:57021**
Perron, B. Les cycles évanescents sont dénoués. [Vanishing cycles are unknotted] **90j:32014**
Väisälä, Jussi Quasiconformal concordance. **90d:30068**

57N75 General position and transversality

Items with secondary classifications in 57N75
Bona, J. L. *see* **Santos, Manuel S., 90k:90032**
Madsen, I. (*with* Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1}. **90g:57028**
Rothenberg, Melvin *see* **Madsen, I., 90g:57028**
Santos, Manuel S. (*with* Bona, J. L.) On the structure of the equilibrium price set of overlapping-generations economies. **90k:90032**

57N80 Stratifications

Items with secondary classifications in 57N80
Goresky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**
Hector, Gilbert *see* **Saralegi Aranguren, Martin, 90a:58007**
MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**
Saralegi Aranguren, Martin (*with* Hector, Gilbert) Formes différentielles d'intersection: un théorème de de Rham pour l'homologie d'intersection des préstratifications abstraites. (English summary) [Differential forms and intersection homology: a de Rham-type theorem for intersection homology on abstract prestratifications] **90a:58007**

57N99 None of the above, but in this section

Viro, O. Ya. Some integral calculus based on Euler characteristic. **90a:57029**
Zarichnyĭ, M. M. Symmetric products that are finite-dimensional manifolds. (Ukrainian. Russian summary) (Not in MR)

Items with secondary classifications in 57N99
Brumfiel, G. W. A semi-algebraic Brouwer fixed point theorem for real affine space. **90k:14019**
Grove, Karsten (*with* Petersen, Peter, V; Wu, Jyh-Yang) Geometric finiteness theorems via controlled topology. **90k:53075**
Kawauchi, Akio An imitation theory of manifolds. **90m:57026**
Makeev, V. V. The Knaster problem on the continuous mappings from a sphere to a Euclidean space. (Russian. English summary) **90e:55006**
— The Knaster problem and almost spherical sections. **90d:55005**
Patkowska, H. On $\frac{1}{2}$-homogeneous ANR-spaces. **90i:54046**
Petersen, Peter, V *see* **Grove, Karsten; et al., 90k:53075**
Rudin, Mary Ellen Countable point separating open covers for manifolds. **90j:54032**
Vershik, A. M. Topology of the convex polytopes' manifolds, the manifold of the projective configurations of a given combinatorial type and representations of lattices. **90d:52007**
Wu, Jyh-Yang *see* **Grove, Karsten; et al., 90k:53075**

57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties

Mitchell, W. J. R. Defining the boundary of a homology manifold. **90m:57015**

Items with secondary classifications in 57P05
Daverman, Robert J. (*with* Repovš, D.) A new 3-dimensional shrinking criterion. **90c:57013**
Repovš, D. *see* **Daverman, Robert J., 90c:57013**

57P10 Poincaré duality spaces

Milgram, R. James Orientations for Poincaré duality spaces and applications. **90k:57024**

Items with secondary classifications in 57P10
Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) Hopf algebras of polynomial growth. **90j:16021**
Goresky, R. Mark (*with* Pardon, William) Wu numbers of singular spaces. **90j:57015**
Halperin, Stephen *see* **Félix, Yves; et al., 90j:16021**
Hillman, J. A. A homotopy fibration theorem in dimension four. **90k:57023**
Kim, In Su Remarks on D^n-groups and spectral sequences. **90k:20088**
— Some properties of D^n-groups. **90j:20116**
Kropholler, P. H. (*with* Roller, M. A.) Splittings of Poincaré duality groups. II. **90d:20090a**
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Pardon, William *see* **Goresky, R. Mark, 90j:57015**
Roller, M. A. *see* **Kropholler, P. H., 90d:20090a** *and* **90d:20090b**
Thomas, Jean-Claude *see* **Félix, Yves; et al., 90j:16021**

57P99 None of the above, but in this section

Dranishnikov, A. N. Cohomology manifolds over finite groups. **90k:57025**
Matsui, Akinori Hirzebruch L-homology classes and the intersection formula. **90i:57012**
Papuc, Dan I. A lemma of differential topology. **90d:57023**

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Huber, Roland The Zariski closure of semialgebraic subsets of complex varieties. **90k:14020**
Jakobsche, W. (*with* Repovš, D.) An exotic factor of $S^3 \times \mathbf{R}$. **90k:57019**
Repovš, D. *see* **Jakobsche, W., 90k:57019**

57Qxx PL-topology

57Q05 The general topology of complexes

Extremiana Aldana, José Ignacio (*with* Hernández, L. J.; Rivas, M. T.) Proper CW-complexes: a category for the study of proper homotopy. **90m:57016**
Hernández, L. J. *see* **Extremiana Aldana, José Ignacio; et al., 90m:57016**
Jones, David W. A general theory of polyhedral sets and the corresponding T-complexes. **90e:57039**
Lawrence, James F. (*with* Spingarn, J. E.) An intrinsic characterization of foldings of Euclidean space. **90m:57017**
Rivas, M. T. *see* **Extremiana Aldana, José Ignacio; et al., 90m:57016**
Spingarn, J. E. *see* **Lawrence, James F., 90m:57017**

Items with secondary classifications in 57Q05
Chiavacci, Rossana Colored pseudocomplexes and their fundamental groups. (Italian. English summary) **90e:57002**
Goossens, Pierre Incidence complexes and r-connectedness. **90k:05091**
Grasselli, Luigi Multiple-coloured graphs and pseudocomplexes. (Italian summary) **90j:05066**
Miwa, Takuo Linear topological spaces and simplicial complexes with the locally convex topology. **90e:46003**
Narushima, Hiroshi (*with* Tsuchiya, Morimasa; Watanabe, Keiichi) The order complexes on the 2-sphere. **90b:06003**
Tsuchiya, Morimasa *see* **Narushima, Hiroshi; et al., 90b:06003**
Watanabe, Keiichi *see* **Narushima, Hiroshi; et al., 90b:06003**

57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

Bauer, Stefan The homotopy type of a 4-manifold with finite fundamental group. **90e:57040**
Inoue, Tsuyoshi The equivariant Whitehead torsions of equivariant homotopy equivalences between the unit spheres of representations of cyclic groups. **90h:57025**
Plakhta, L. P. Preservation of homology and of simple homotopy type by normal functors. (Russian) **90k:57026**

Items with secondary classifications in 57Q10
Craggs, R. Freely reducing group readings for 2-complexes in 4-manifolds. **90k:57018**
Dar, Aparna Intersection Whitehead torsion and the s-cobordism theorem for pseudomanifolds. **90a:57050**
Kobayashi, Teiichi On the J-group of the quaternionic spherical space form S^{4n+3}/H_3. **90f:55008**
Komatsu, Kazushi The order of the canonical element in $\widetilde{J}(N^n(4))$ and an application. **90e:55008**
Lück, Wolfgang (*with* Ranicki, Andrew) Chain homotopy projections. **90i:57013**
Ranicki, Andrew *see* **Lück, Wolfgang, 90i:57013**
Turaev, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. **90m:57021**
Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. **90e:57041**
(Wall, C. T. C.) *see* **Varadarajan, K., 90e:57041**
Weinberger, Shmuel G-signatures and cyclotomic units. **90g:57029**

57Q12 Wall finiteness obstruction for CW-complexes

Ewing, John H. (*with* Löffler, Peter; Pedersen, Erik K.) A local approach to the finite obstruction. **90a:57030**
Löffler, Peter *see* **Ewing, John H.; et al., 90a:57030**
Lück, Wolfgang (*with* Ranicki, Andrew) Chain homotopy projections. **90i:57013**
Pedersen, Erik K. *see* **Ewing, John H.; et al., 90a:57030**
Ranicki, Andrew *see* **Lück, Wolfgang, 90i:57013**
Varadarajan, K. ★ The finiteness obstruction of C. T. C. Wall. **90e:57041**
(Wall, C. T. C.) *see* **Varadarajan, K., 90e:57041**

57Q15 Triangulating manifolds

Cavicchioli, Alberto (*with* Grasselli, Luigi) Minimal dissections of bordered manifolds. **90d:57024**

Gagliardi, Carlo On the genus of the complex projective plane. **90f:57026**

Grasselli, Luigi *see* **Cavicchioli, Alberto, 90d:57024**

Items with secondary classifications in 57Q15

Alberty, J. M. Handling noncritical random surfaces. A combinatorial approach to wormhole formation. **90f:83034**

Costa, Antonio F. Coloured graphs representing manifolds and universal maps. **90d:05086**

Davis, Michael Walter (*with* Hausmann, Jean-Claude) Aspherical manifolds without smooth or PL structure. **90f:57016**

Dobkin, David P. (*with* Laszlo, Michael J.) Primitives for the manipulation of three-dimensional subdivisions. **90g:68015**

Grasselli, Luigi Multiple-coloured graphs and pseudocomplexes. (Italian summary) **90j:05066**

Hausmann, Jean-Claude *see* **Davis, Michael Walter, 90f:57016**

Laszlo, Michael J. *see* **Dobkin, David P., 90g:68015**

Lins, Sóstenes Invariant groups on equivalent crystallizations. **90k:57001**

57Q20 Cobordism

Goresky, R. Mark (*with* Pardon, William) Wu numbers of singular spaces. **90j:57015**

Pardon, William *see* **Goresky, R. Mark, 90j:57015**

Items with secondary classifications in 57Q20

Davis, James Frederic (*with* Milgram, R. James) Semicharacteristics, bordism, and free group actions. **90d:57036**

Milgram, R. James *see* **Davis, James Frederic, 90d:57036**

57Q25 Comparison of PL-structures: classification, Hauptvermutung

Gagliardi, Carlo On a class of 3-dimensional polyhedra. (Italian summary) **90a:57031**

Items with secondary classifications in 57Q25

Bauer, Stefan The homotopy type of a 4-manifold with finite fundamental group. **90e:57040**

57Q35 Imbeddings and immersions

Guo, Jing Mei PL embeddings of PL manifolds into some Euclidean spaces. **90f:57027**

Levitt, Norman ★ Grassmannians and Gauss maps in piecewise-linear topology. **90e:57042**

Items with secondary classifications in 57Q35

Bloch, Ethan D. Simplexwise linear and piecewise linear near self-homeomorphisms of surfaces. **90e:57023**

Fenn, Roger Fibring the complement of the Fenn-Rolfsen link. **90k:57027**

Ferry, Steven C. (*with* Pedersen, Erik K.; Vogel, Pierre) On complements of codimension-3 embeddings in S^n. **90f:57025**

Horvatić, Krešo ★ An embedding theorem for polyhedra. **90e:57003**

Pedersen, Erik K. *see* **Ferry, Steven C.; et al., 90f:57025**

Vogel, Pierre *see* **Ferry, Steven C.; et al., 90f:57025**

57Q37 Isotopy

Marumoto, Yoshihiko Intersections of spheres and disks in manifolds. **90f:57028**

Randell, R. Lattice-isotopic arrangements are topologically isomorphic. **90a:57032**

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Bayer-Fluckiger, E. (*with* Kearton, C.; Wilson, S. M. J.) Finiteness theorems for conjugacy classes and branched covers of knots. **90i:57014**

Farber, M. Sh. Minimal Seifert manifolds and the knot finiteness theorem. **90m:57018**

Fenn, Roger Fibring the complement of the Fenn-Rolfsen link. **90k:57027**

Hillman, J. A. Two-knot groups with torsion free abelian normal subgroups of rank two. **90a:57033**

— ★ 2-knots and their groups. **90d:57025**

— (*with* Wilson, S. M. J.) On the reflexivity of Cappell-Shaneson 2-knots. **90k:57028**

— The algebraic characterization of the exteriors of certain 2-knots. **90d:57026**

— (*with* Kearton, C.) Stable isometry structures and the factorization of Q-acyclic stable knots. **90h:57026**

Kanenobu, Taizo Untwisted deform-spun knots: examples of symmetry-spun 2-knots. **90m:57019**

Kearton, C. *see* **Hillman, J. A., 90h:57026** *and* **Bayer-Fluckiger, E.; et al., 90i:57014**

Kirk, Paul A. Link maps in the four sphere. **90e:57043**

— Link homotopy with one codimension two component. **90j:57016**

Ko, K. H. A Seifert-matrix interpretation of Cappell and Shaneson's approach to link cobordisms. **90j:57017**

Kobel'skiĭ, V. L. Modules of two-component links of codimension two. (Russian) **90k:57029**

Koschorke, Ulrich Multiple point invariants of link maps. **90d:57027**

Levine, J. P. Link concordance. **90k:57030**

— Metabolic and hyperbolic forms from knot theory. **90h:57027**

Morita, Toshiyuki Orders of knots in the algebraic knot cobordism group. **90d:57028**

Neumann, Walter D. (*with* Rudolph, Lee) The enhanced Milnor number in higher dimensions. **90f:57029**

Nezhinskiĭ, V. M. Groups of classes of pseudohomotopic singular links. I. (Russian) **90d:57029**

Nicolau, Monica A classification of invariant knots. **90k:57031**

Pizer, Adrian Matrices which are knot module matrices. **90e:57044**

Roseman, Dennis Spinning knots about submanifolds; spinning knots about projections of knots. **90e:57045**

Rudolph, Lee *see* **Neumann, Walter D., 90f:57029**

Silver, Daniel S. Construction by isotopy. II. **90g:57021**

Smolinsky, Lawrence Invariants of link cobordism. **90h:57028**

— Casson-Gordon invariants of some 3-fold branched covers of knots. **90k:57032**

Teragaito, Masakazu Fibered 2-knots and lens spaces. **90d:57030**

— Addendum to: "Fibered 2-knots and lens spaces" [Osaka J. Math. **26** (1989), no. 1, 57–63; MR 90d:57030]. **90k:57033**

Wilson, S. M. J. *see* **Bayer-Fluckiger, E.; et al., 90i:57014** *and* **Hillman, J. A., 90k:57028**

Yasuda, Tomoyuki A presentation and the genus for ribbon n-knots. **90k:57034**

Items with secondary classifications in 57Q45

le Dimet, Jean-Yves Cobordisme d'enlacements de disques. (English summary) [Cobordism of linked discs] **90e:57046**

Finashin, S. M. (*with* Kreck, M.; Viro, O. Ya.) Nondiffeomorphic but homeomorphic knottings of surfaces in the 4-sphere. **90h:57021**

Gau, Yih-Nan On the topological types of quasi-ordinary surface germs. **90e:14040**

Hillman, J. A. A homotopy fibration theorem in dimension four. **90k:57023**

Koschorke, Ulrich (*with* Rolfsen, Dale) Higher-dimensional link operations and stable homotopy. **90h:57034**

Kreck, M. *see* **Finashin, S. M.; et al., 90h:57021**

Némethi, A. The link of the sum of two holomorphic functions. **90b:32021**

Rolfsen, Dale *see* **Koschorke, Ulrich, 90h:57034**

Suciu, Alexander I. Iterated spinning and homology spheres. **90m:57014**

Viro, O. Ya. *see* **Finashin, S. M.; et al., 90h:57021**

57Q50 Microbundles and block bundles [see also 55R60, 57N55]

Items with secondary classifications in 57Q50

Guo, Jing Mei PL embeddings of PL manifolds into some Euclidean spaces. **90f:57027**

57Q60 Cobordism and concordance

Chapman, T. A. Destabilization of piecewise linear concordances. **90h:57029**

le Dimet, Jean-Yves Cobordisme d'enlacements de disques. (English summary) [Cobordism of linked discs] **90e:57046**

Items with secondary classifications in 57Q60

Ayala, R. (*with* Domínguez Murillo, Eladio; Quintero, A.) Approximation axiomatique à la théorie du bordisme. (English summary) [An axiomatic approach to bordism theory] **90j:55010**

Domínguez Murillo, Eladio *see* **Ayala, R.; et al., 90j:55010**

Nezhinskiĭ, V. M. Groups of classes of pseudohomotopic singular links. I. (Russian) **90d:57029**

Quintero, A. *see* **Ayala, R.; et al., 90j:55010**

Shibuya, Tetsuo On the homotopy of links. **90d:57011**

— Some metric functions of links. **90f:57009**

Smolinsky, Lawrence Casson-Gordon invariants of some 3-fold branched covers of knots. **90k:57032**

57Q91 Equivariant PL-topology

Items with secondary classifications in 57Q91

Jaco, William (*with* Rubinstein, J. Hyam) PL equivariant surgery and invariant decompositions of 3-manifolds. **90g:57016**

Rubinstein, J. Hyam *see* **Jaco, William, 90g:57016**

57Q99 None of the above, but in this section

Cammaroto, F. (*with* Carini, L.) On regular homotopy of a finite simplicial complex. (Italian summary) **90f:57030**

Carini, L. *see* **Cammaroto, F., 90f:57030**

Esposito, Rosa (*with* Parlato, Lucio) Mappings with homogeneously collapsible duals. (Italian. English summary) **90a:57034a**

— (*with* Magro, Gaetano) The simplicial cylinder of mappings with homogeneously collapsible duals. (Italian. English summary) **90a:57034b**

Magro, Gaetano *see* **Esposito, Rosa, 90a:57034b**

Parlato, Lucio *see* **Esposito, Rosa, 90a:57034a**

Rivara, María-Cecilia Selective refinement/derefinement algorithms for sequences of nested triangulations. **90j:57018**

Sakai, Katsuro (*with* Wong, Raymond Y.) On the space of Lipschitz homeomorphisms of a compact polyhedron. **90m:57020**

Wong, Raymond Y. *see* **Sakai, Katsuro, 90m:57020**

Items with secondary classifications in 57Q99

Björner, Anders (*with* Kalai, Gil) On f-vectors and homology. **90i:52008**

Greenberg, Peter Homology of some groups of pl-homeomorphisms of the line. **90i:20054**

Hacon, Derek (*with* Tomei, C.) Tetrahedral decompositions of hexahedral meshes. **90i:51022**

Helmke, U. (*with* Hinrichsen, D.; Manthey, W.) A cell decomposition of the space of real Hankel matrices of rank $\leq n$ and some applications. **90m:93039**

Hinrichsen, D. *see* **Helmke, U.; et al., 90m:93039**

Kalai, Gil *see* **Björner, Anders, 90i:52008**

Lawrence, James F. (*with* Spingarn, J. E.) An intrinsic characterization of foldings of Euclidean space. **90m:57017**

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Spingarn, J. E. *see* **Lawrence, James F., 90m:57017**

Tomei, C. *see* **Hacon, Derek, 90i:51022**

Viro, O. Ya. Some integral calculus based on Euler characteristic. **90a:57029**

Zarichnyĭ, M. M. (*with* Plakhta, L. P.) Lifting normal functors of finite degree to the PL category. (Russian. English summary) **90g:54005**

57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

57R05 Triangulating

Acquistapace, Francesca Essential coverings for differentiable manifolds. (Italian) **90a:57035**

Items with secondary classifications in 57R05

Broglia, Fabrizio Simple coverings for stratified spaces. (Italian) **90k:58005**

Knebusch, Manfred ★ Weakly semialgebraic spaces. **90j:14027**

Lalonde, François Homologie de Shih d'une submersion (homologies non singulières des variétés feuilletées). [Shih homology of a submersion (nonsingular homologies of foliated manifolds)] **90a:55011**

Papuc, Dan I. A lemma of differential topology. **90d:57023**

57R10 Smoothing

Items with secondary classifications in 57R10

Davis, Michael Walter (*with* Hausmann, Jean-Claude) Aspherical manifolds without smooth or PL structure. **90f:57016**

Donaldson, S. (*with* Friedman, Robert David) Connected sums of self-dual manifolds and deformations of singular spaces. **90e:32027**

Farrell, F. T. (*with* Jones, Lowell Edwin) Negatively curved manifolds with exotic smooth structures. **90f:53075**

Friedman, Robert David *see* **Donaldson, S., 90e:32027**

Gompf, Robert E. Periodic ends and knot concordance. **90f:57004**

Hausmann, Jean-Claude *see* **Davis, Michael Walter, 90f:57016**

Jones, Lowell Edwin *see* **Farrell, F. T., 90f:53075**

Kharlamov, V. M. (*with* Viro, O. Ya.) Extensions of the Gudkov-Rohlin congruence. **90a:14030**

Viro, O. Ya. *see* **Kharlamov, V. M., 90a:14030**

57R15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)

Anglès, Pierre Real conformal spin structures on manifolds. **90d:57031**

Astey, L. (*with* Guest, M. A.; Pastor, Guillermo) Lie groups as framed boundaries. **90c:57014**

Dąbrowski, L. (*with* Trautman, Andrzej) Spinor structures on homogeneous Riemannian spaces. **90a:57036**

Franc, A. Spin structures and Killing spinors on lens spaces. **90e:57047**

Guest, M. A. *see* **Astey, L.; et al., 90c:57014**

Pastor, Guillermo *see* **Astey, L.; et al., 90c:57014**

Plesken, W. Minimal dimensions for flat manifolds with prescribed holonomy. **90i:57015**

Trautman, Andrzej *see* **Dąbrowski, L., 90a:57036**

Items with secondary classifications in 57R15

Arapura, Donu A short proof of Rohlin's theorem for complex surfaces. **90g:57022**

Bennequin, Daniel Links and Pfaffian equations. **90i:58152**

Crumeyrolle, A. The primitive idempotents of the Clifford algebras and the amorphic spinor fibre bundles. **90g:53022**

Fernández, Marisa Luisa (*with* Gotay, Mark J.; Gray, Alfred) Compact parallelizable four-dimensional symplectic and complex manifolds. **90a:53039**

Fontanillas, J. (*with* Varela, F.) Global models of Riemannian metrics. **90g:53055**

Friedrich, Th. (*with* Kath, I.) Einstein manifolds of dimension five with small first eigenvalue of the Dirac operator. **90e:58158**

Gotay, Mark J. *see* **Fernández, Marisa Luisa; et al., 90a:53039**

Gray, Alfred *see* **Fernández, Marisa Luisa; et al., 90a:53039**

Gromov, Mikhael L. Rigid transformations groups. **90d:58173**

Kath, I. *see* **Friedrich, Th., 90e:58158**

Kazez, W. *see* **Melvin, Paul M., 90e:57029**

Kirby, Robion C. ★ The topology of 4-manifolds. **90j:57012**

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Portolano, A. *see* **Maniscalco, I., 90e:57038**
Possani, Claudio A theorem of the total curvature of two orthogonal foliations of a hyperbolic surface. (Portuguese) **90g:53041**
Pradines, Jean Variétés d'orbites. [Orbit manifolds] **90f:53062**
Ramachandran, Mohan *see* **Nishikawa, Seiki; et al., 90i:58189**
Rauch, Jeffrey (*with* Reed, Michael C.) Bounded, stratified and striated solutions of hyperbolic systems. **90f:35122**
Reed, Michael C. *see* **Rauch, Jeffrey, 90f:35122**
Reiffen, Hans-Jörg Leafspaces and integrability. **90c:32014**
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Sergiescu, Vlad *see* **Ghys, Étienne, 90c:57035**
Sertöz, Sinan Residues of singular holomorphic foliations. **90h:32057**
Silva, Ana Maria F. Atiyah sequences and complete closed pseudogroups preserving a local parallelism. **90a:58203**
Skandalis, Georges *see* **Hilsum, Michel, 90a:58169**
Sundararaman, Duraiswami *see* **Gómez-Mont, Xavier, 90k:32066**
Takai, Hiroshi Baum-Connes conjectures and their applications. **90b:58259**
Tondeur, Philippe *see* **Kamber, Franz W., 90b:58005; Nishikawa, Seiki; et al., 90i:58189** *and* **90m:53047**
Veech, William A. Quasiminimal invariants for foliations of orientable closed surfaces. **90i:58154**
Velling, John A. A geometric interpretation of the Ahlfors-Weill mappings and an induced foliation of $\mathbf{H}^3$. **90a:30068**
Walczak, Paweł G. Dynamics of the geodesic flow of a foliation. **90g:58099**
Waliszewski, Włodzimierz Complex premanifolds and foliations. **90b:58011**
Wang, Xiaolu Noncommutative "CW-complexes". **90a:46188**
— *see also* **Fack, Thierry, 90i:46117**
Witte, Dave Topological equivalence of foliations of homogeneous spaces. **90d:22012**
Wolak, Robert Foliations admitting transverse systems of differential equations. **90b:58007**
— Maximal subalgebras in the algebra of foliated vector fields of a Riemannian foliation. **90i:53040**
— Le graphe d'un feuilletage admettant un système transverse d'équations différentielles. [The graph of a foliation admitting a transversal system of differential equations] **90f:58185**
— Leaves of foliations with a transverse geometric structure of finite type. **90g:53042**
— *see also* **Cordero, Luis A., 90m:53046**
Wróblewski, Jarosław Singular foliations of differential spaces. **90d:58012**
Zimmer, Robert J. Orbit equivalence, Lie groups, and foliations. **90a:28030**

57R32 Classifying spaces for foliations; Gel′fand-Fuks cohomology

Spallek, K. Foliations on singularities. **90a:57044**
Tabachnikov, S. L. Characteristic classes of Lagrange foliations. **90h:57032**

Items with secondary classifications in 57R32

Ghys, Étienne (*with* Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] **90c:57035**
Hilsum, Michel (*with* Skandalis, Georges) Morphismes K-orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K-oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] **90a:58169**
Sergiescu, Vlad *see* **Ghys, Étienne, 90c:57035**
Skandalis, Georges *see* **Hilsum, Michel, 90a:58169**

57R35 Differentiable mappings

Cristea, Mihai Some conditions for the local or global injectivity of a mapping between two n-manifolds. **90a:57045**
Kawauchi, Akio An imitation theory of manifolds. **90m:57026**
Li, Bang He (*with* Xu, Tao) On third order nondegenerate immersions and maps of S^1 in $\mathbf{R}^2$. **90h:57033**
Xu, Tao *see* **Li, Bang He, 90h:57033**

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Kitada, Yasuhiko Relations among smooth Kervaire classes and smooth involutions on homotopy spheres. **90e:57051**

Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. **90k:58022**
— On the topological structure of smooth equivariant mappings. II. Topological instability and nonstabilization theorems. **90k:58023**

57R40 Imbeddings

de Carvalho, F. J. Craveiro (*with* Robertson, S. A.) A note on equichordal graphs. **90c:57023**
Guo, Jing Mei Embeddings of k-oriented manifolds. (Chinese) (Not in MR)
Hong, Sungpyo *see* **Kwak, Jin Ho; et al., 90f:57036**
Koschorke, Ulrich (*with* Rolfsen, Dale) Higher-dimensional link operations and stable homotopy. **90h:57034**
Kwak, Jin Ho (*with* Hong, Sungpyo; Sohn, Moo Young) Nonembeddability and nonimmersibility of a product Dold manifold. **90f:57036**
Markl, Martin Lower bounds for the embedding dimension of real oriented and nonoriented Grassmannians. (Serbo-Croatian summary) **90d:57034**
Micha, E. Embedding and immersion numbers of manifolds with boundary. **90e:57056**
Pinkall, Ulrich (*with* Thorbergsson, Gudlaugur) Taut 3-manifolds. **90j:57022**
Robertson, S. A. *see* **de Carvalho, F. J. Craveiro, 90c:57023**
Rolfsen, Dale *see* **Koschorke, Ulrich, 90h:57034**
Sohn, Moo Young *see* **Kwak, Jin Ho; et al., 90f:57036**
Thorbergsson, Gudlaugur *see* **Pinkall, Ulrich, 90j:57022**

Items with secondary classifications in 57R40

Bleiler, Steven (*with* Scharlemann, Martin) A projective plane in $\mathbf{R}^4$ with three critical points is standard. Strongly invertible knots have property P. **90e:57006**
Scharlemann, Martin *see* **Bleiler, Steven, 90e:57006**
Szűcs, A. Applications of the Pontrjagin-Thom construction for singular maps. **90i:57019**

57R42 Immersions

Beltagy, M. A. New results on athwart immersions. (Arabic summary) **90g:57026**
— Athwart immersions with codimension $p \geq 2$ into Euclidean space. **90e:57057**
Berrick, A. J. (*with* Randall, Duane) On equivariant maps and immersions of real projective spaces. **90c:57024**
Carter, J. Scott Surgering the equatorial immersion in low dimensions. **90e:57058b**
— Surgery on the equatorial immersion. I. **90e:57058a**
— *see also* **Ko, K. H., 90i:57018**
Coghlan, Leslie Tight stable surfaces. II. **90k:57037**
— Some general constructions of tight mappings. **90k:57038**
Cohen, Ralph L. (*with* Tillmann, Ulrike) Lectures on immersion theory. **90c:57025**
Eccles, Peter J. (*with* Mitchell, William P. R.) Triple points of immersed orientable $2n$-manifolds in $3n$-space. **90a:57046**
Flegmann, A. M. The parallel rank of a submanifold of Euclidean space. **90h:57035**
Hirsch, Michael D. The complement of a codimension-k immersion. **90j:57023**
Ko, K. H. (*with* Carter, J. Scott) Triple points of immersed surfaces in three-dimensional manifolds. **90i:57018**
Koschorke, Ulrich The singularity method and immersions of m-manifolds into manifolds of dimensions $2m-2$, $2m-3$ and $2m-4$. **90k:57039**
Li, Bang He Codimension 1 immersions of the circle and surfaces. **90m:57027**
— (*with* Tang, Zi Zhou) Codimension 1 and 2 immersions of lens spaces. **90m:57028**
— (*with* Liang, Xiao Ting) Classification of null-homotopic immersions of m-manifolds into $(m+1)$-manifolds. (Chinese. English summary) **90j:57024**
Li, Gui Song Existence of higher-order immersions. (Chinese) (Not in MR)
Liang, Xiao Ting *see* **Li, Bang He, 90j:57024**
Mitchell, William P. R. *see* **Eccles, Peter J., 90a:57046**
Nworah, Kingsley I. On immersion below the metastable range. **90c:57026**
Randall, Duane *see* **Berrick, A. J., 90c:57024**
Sharpe, R. W. A proof of the Chern-Lashof conjecture in dimensions greater than five. **90h:57036**
Shimizu, Tamon A quantity of closed plane curves. **90k:57040**
Tang, Zi Zhou *see* **Li, Bang He, 90m:57028**
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Aguilar, M. A. Generators for the bordism algebra of immersions. **90b:57008**
Davis, Donald M. (*with* Mahowald, Mark) A new spectrum related to 7-connected cobordism. **90i:55009**
— Use of a computer to suggest key steps in the proof of a theorem in topology. **90k:55001**
Giroux, Emmanuel Formes génératrices d'immersions lagrangiennes. (English summary) [Generating forms of Lagrangian immersions] **90a:58049**
Hong, Sungpyo *see* **Kwak, Jin Ho; et al., 90f:57036**
Koschorke, Ulrich (*with* Rolfsen, Dale) Higher-dimensional link operations and stable homotopy. **90h:57034**
Kwak, Jin Ho (*with* Hong, Sungpyo; Sohn, Moo Young) Nonembeddability and nonimmersibility of a product Dold manifold. **90f:57036**
Lalonde, François Classes caractéristiques isotropes. [Isotropic characteristic classes] **90k:58069**
Li, Bang He (*with* Xu, Tao) On third order nondegenerate immersions and maps of S^1 in $\mathbf{R}^2$. **90h:57033**
Mahowald, Mark *see* **Davis, Donald M., 90i:55009**
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Sohn, Moo Young *see* **Kwak, Jin Ho; et al., 90f:57036**
Song, Hyun-Jong (*with* Wilson, W. Stephen) On the nonimmersion of products of real projective spaces. **90f:55011**
Ueno, Kazushige On a weak generalization of the fundamental theorem of the theory of curves or hypersurfaces. **90c:58009**
Wilson, W. Stephen *see* **Song, Hyun-Jong, 90f:55011**
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57R45 Singularities of differentiable mappings

Sharko, V. V. Deformation of Morse functions. I. **90f:57037**
Szűcs, A. Multiple points of singular maps. II. **90c:57027**
— Applications of the Pontrjagin-Thom construction for singular maps. **90i:57019**

Items with secondary classifications in 57R45

Arnol'd, V. I. Spaces of functions with moderate singularities. (Russian) **90m:58016**
Bott, Raoul Morse theory indomitable. **90f:58027**
Donelan, Peter S. Generic properties in Euclidean kinematics. **90e:70004**
Duval, Julien Convexité rationnelle des tores lagrangiéns de $\mathbf{C}^2$. (English summary) [Rational convexity of Lagrangian tori in $\mathbf{C}^2$] **90a:32016**
Gago Couso, Felipe Morse germs in S.D.G. **90a:58002**
Gottlieb, Daniel Henry Zeroes of pullback vector fields and fixed point theory for bodies. **90j:57019**
Helffer, B. (*with* Sjöstrand, Johannes) A proof of the Bott inequalities. **90g:58018**
Igusa, Kiyoshi The stability theorem for smooth pseudoisotopies. **90d:57035**
Laback, O. (*with* Oberritzer, R.) On the continuity of bijections of a sphere. **90j:54036**
Mond, David Singularities of the tangent developable surface of a space curve. **90e:53006**
Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. **90k:58022**
— On the topological structure of smooth equivariant mappings. II. Topological instability and nonstabilization theorems. **90k:58023**
Oberritzer, R. *see* **Laback, O., 90j:54036**
Perron, B. Les cycles évanescents sont dénoués. [Vanishing cycles are unknotted] **90j:32014**
Sedykh, V. D. An infinitely smooth compact convex hypersurface whose shadow boundary is not twice differentiable. (Russian) **90i:53008**
Sjöstrand, Johannes *see* **Helffer, B., 90g:58018**
Smith, Wolfgang Morse theory without critical points. **90i:57020**
Weber, Claude A topological interpretation for the polar quotients of an algebraic plane curve singularity. **90d:32017**
Willem, M. Aspects of Morse theory. (Italian summary) **90i:58021**
Yomdin, Y. Volume growth and entropy. **90g:58008**
— C^k-resolution of semialgebraic mappings. Addendum to: "Volume growth and entropy". **90g:58009**

57R50 Diffeomorphisms

Friedman, John L. (*with* Witt, Donald M.) Problems on diffeomorphisms arising from quantum gravity. **90c:57028**
Igusa, Kiyoshi The stability theorem for smooth pseudoisotopies. **90d:57035**
Masuda, Mikiya A note on local change of diffeomorphism. **90c:57029**
Mikulski, W. M. Natural topologies on $\mathbf{R}^n$. **90b:57007**
Witt, Donald M. *see* **Friedman, John L., 90c:57028**
Zimmermann, B. Isotopies of Seifert fibered, hyperbolic and Euclidean 3-orbifolds. **90h:57037**

Items with secondary classifications in 57R50

Belitskiĭ, G. R. Finite determinacy of the germs of C^∞-diffeomorphisms. (Russian) **90c:58026**
Boileau, Michel (*with* Zimmermann, B.) The π-orbifold group of a link. **90a:57005**
Ghys, Étienne (*with* Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] **90c:57035**
Gu, Keqin *see* **Tongue, Benson H., 90a:54027**
Kitada, Yasuhiko Relations among smooth Kervaire classes and smooth involutions on homotopy spheres. **90e:57051**
Sergiescu, Vlad *see* **Ghys, Étienne, 90c:57035**
Tongue, Benson H. (*with* Gu, Keqin) A theoretical basis for interpolated cell mapping. **90a:54027**
Zimmermann, B. *see* **Boileau, Michel, 90a:57005**

57R52 Isotopy

Items with secondary classifications in 57R52

Boileau, Michel (*with* Zimmermann, B.) The π-orbifold group of a link. **90a:57005**
Farrell, F. T. (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**
— (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
— (*with* Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**
Jones, Lowell Edwin *see* **Farrell, F. T., 90h:57023a; 90h:57023b** *and* **90h:57023c**
Suvorov, P. Isotopic but not rigidly isotopic plane systems of straight lines. **90a:14034**
Zimmermann, B. Isotopies of Seifert fibered, hyperbolic and Euclidean 3-orbifolds. **90h:57037**
— Isotopies of Haken-3-orbifolds. **90h:57038**
— *see also* **Boileau, Michel, 90a:57005**

57R55 Differentiable structures

Atiyah, Michael Topological quantum field theories. **90e:57059**
Gompf, Robert E. A moduli space of exotic $\mathbf{R}^4$'s. **90e:57060**
Karlhede, A. (*with* Roček, M.) Topological quantum field theories in arbitrary dimensions. **90h:57039**
Kotschick, Dieter On manifolds homeomorphic to $\mathbf{CP}^2\#8\overline{\mathbf{CP}}^2$. **90a:57047**
Kwak, Jin Ho (*with* Park, Young Soo) Some cyclic group actions on homotopy spheres. **90e:57061**
Okonek, Christian Fake Enriques surfaces. **90e:57062**
— (*with* Van de Ven, A.) Γ-type-invariants associated to PU(2)-bundles and the differentiable structure of Barlow's surface. **90a:57048**

Park, Young Soo *see* **Kwak, Jin Ho, 90e:57061**
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van Baal, Pierre *see* **Ouvry, Stéphane; et al., 90c:58008**
Batchelor, Marjorie In search of the graded manifold of maps between graded manifolds. **90j:58021**
Chapline, G. (*with* Grossman, Bernard) Conformal field theory and a topological quantum theory of vortices and knots. **90m:81052**
Cochran, Tim D. (*with* Gompf, Robert E.) Applications of Donaldson's theorems to classical knot concordance, homology 3-spheres and property P. **90g:57020**
Cromme, L. J. Manifolds with cusps. **90k:58002**
Dayi, Ömer F. A general action for topological quantum field theories. **90m:81053**
Farrell, F. T. (*with* Jones, Lowell Edwin) Negatively curved manifolds with exotic smooth structures. **90f:53075**
Finashin, S. M. (*with* Kreck, M.; Viro, O. Ya.) Nondiffeomorphic but homeomorphic knottings of surfaces in the 4-sphere. **90h:57021**
Friedman, Robert David Rank two vector bundles over regular elliptic surfaces. **90e:14016**
Furuta, Mikio The application of gauge theory to topology. (Japanese) **90c:57015**
Gompf, Robert E. *see* **Cochran, Tim D., 90g:57020**
Grossman, Bernard *see* **Chapline, G., 90m:81052**
Gruszczak, J. (*with* Heller, Michael; Multarzyński, P.) A generalization of manifolds as space-time models. **90a:58003**
Heller, Michael *see* **Gruszczak, J.; et al., 90a:58003**
Jones, Lowell Edwin *see* **Farrell, F. T., 90f:53075**
Kanno, Hiroaki Weil algebra structure and geometrical meaning of BRST transformation in topological quantum field theory. **90j:81112**
Kreck, M. *see* **Finashin, S. M.; et al., 90h:57021**
Multarzyński, P. *see* **Gruszczak, J.; et al., 90a:58003**
Narasimhan, M. S. Topology of compact simply connected smooth four-manifolds. **90i:57009**
Ouvry, Stéphane (*with* Stora, Raymond; van Baal, Pierre) On the algebraic characterization of Witten's topological Yang-Mills theory. **90c:58008**
Pradines, Jean Variétés d'orbites. [Orbit manifolds] **90f:53062**
Rohm, R. Topological defects and differential structures. **90d:81101**
Stora, Raymond *see* **Ouvry, Stéphane; et al., 90c:58008**
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57R60 Homotopy spheres, Poincaré conjecture

Items with secondary classifications in 57R60

tom Dieck, Tammo Modification of linking in representation forms. **90h:57048**
— Linking in cyclic representation forms. **90h:57049**
Masuda, Mikiya A product formula for connected sum. **90k:57044**
Morita, Shigeyuki Casson's invariant for homology 3-spheres and characteristic classes of surface bundles. I. **90h:57020**
Rohm, R. Topological defects and differential structures. **90d:81101**

57R65 Surgery and handlebodies

Donaldson, S. Complex curves and surgery. **90k:57041**
Stark, Christopher W. Convexity and root closure in negatively curved manifolds. **90h:57040**

Items with secondary classifications in 57R65

Cappell, Sylvain E. (*with* Shaneson, Julius L.) On four-dimensional s-cobordisms. II. **90i:57011**
Carter, J. Scott Surgering the equatorial immersion in low dimensions. **90e:57058b**
— Surgery on the equatorial immersion. I. **90e:57058a**
tom Dieck, Tammo Modification of linking in representation forms. **90h:57048**
— Linking in cyclic representation forms. **90h:57049**
Fack, Thierry Sur la conjecture de Novikov. (English summary) [On Novikov's conjecture] **90e:58150**
Fomenko, A. T. (*with* Sharko, V. V.) Morse exact round functions, Morse-type inequalities and integrals of Hamiltonian systems. **90h:58039**
Freedman, Michael H. Poincaré transversality and four-dimensional surgery. **90a:57022**
Ishimoto, Hiroyasu On an extension of the James-Whitehead theorem about sphere bundles over spheres. **90d:55025**
Jaco, William (*with* Rubinstein, J. Hyam) PL equivariant surgery and invariant decompositions of 3-manifolds. **90g:57016**
Neumann, Walter D. On bilinear forms represented by trees. **90m:11059**
Rosenberg, Jonathan (*with* Weinberger, Shmuel) Higher G-indices and applications. **90f:58170**
Rubinstein, J. Hyam *see* **Jaco, William, 90g:57016**
Shaneson, Julius L. *see* **Cappell, Sylvain E., 90i:57011**
Sharko, V. V. *see* **Fomenko, A. T., 90h:58039**
Sharpe, R. W. A proof of the Chern-Lashof conjecture in dimensions greater than five. **90h:57036**
Weinberger, Shmuel Homotopy invariance of η-invariants. **90a:58168**
— *see also* **Rosenberg, Jonathan, 90f:58170**

57R67 Surgery obstructions, Wall groups [see also 18F25, 19G24]

Davis, James Frederic (*with* Milgram, R. James) Semicharacteristics, bordism, and free group actions. **90d:57036**
Lück, Wolfgang (*with* Ranicki, Andrew) Surgery transfer. **90h:57041**
Milgram, R. James *see* **Davis, James Frederic, 90d:57036**
Morimoto, Masaharu Bak groups and equivariant surgery. **90d:57037**
Ranicki, Andrew *see* **Lück, Wolfgang, 90h:57041**
Schultz, Reinhard E. A splitting theorem for manifolds with involution and two applications. **90d:57038**
Yamasaki, Masayuki L-groups of virtually polycyclic groups. **90j:57025**

Items with secondary classifications in 57R67

Dovermann, Karl Heinz (*with* Rothenberg, Melvin) The generalized Whitehead torsion of a G-fibre homotopy equivalence. **90i:57028**
Farrell, F. T. (*with* Jones, Lowell Edwin) Negatively curved manifolds with exotic smooth structures. **90f:53075**
— (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**
— (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
— (*with* Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**
Hambleton, Ian (*with* Madsen, I.) On the discriminants of forms with Arf invariant one. **90f:11026**
Jones, Lowell Edwin *see* **Farrell, F. T., 90f:53075; 90h:57023a; 90h:57023b** *and* **90h:57023c**
Madsen, I. *see* **Hambleton, Ian, 90f:11026**
Milgram, R. James Orientations for Poincaré duality spaces and applications. **90k:57024**
Morimoto, Masaharu Most of the standard spheres have one fixed point actions of A_5. **90i:57029**
Rothenberg, Melvin *see* **Dovermann, Karl Heinz, 90i:57028**

57R70 Critical points and critical submanifolds

Duan, Hai Bao (*with* Rees, Elmer) The existence of bitangent spheres. **90h:57042**
Goresky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**
MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**
Mayer, Karl Heinz G-invariante Morse-Funktionen. (English summary) [G-invariant Morse functions] **90a:57049**
Rassias, George M. On the generalized Poincaré conjecture and the structure of manifolds. (Greek summary) **90g:57027**
Rees, Elmer *see* **Duan, Hai Bao, 90h:57042**
Smith, Wolfgang Morse theory without critical points. **90i:57020**

Items with secondary classifications in 57R70

Arnol'd, V. I. On some problems in symplectic topology. **90d:58036**
Sitta, Ana Maria Boardman's symbols for q-uples of differentiable applications. (Portuguese summary) **90a:58015**
Solimini, Sergio Morse index estimates in min-max theorems. **90f:58028**

57R75 O- and SO-cobordism

Khare, S. S. On Dold manifolds. **90i:57021**
Yang, Hua Jian The dimensions of smooth closed manifolds with involutions fixing the disjoint union $*\bigcup \mathbf{R}^\delta \mathrm{P}(2k)$. (Chinese) **90f:57038**

Items with secondary classifications in 57R75

Fujii, Michikazu Bordism theory with reality and duality theorem of Poincaré type. **90h:55008**
Kirby, Robion C. ★ The topology of 4-manifolds. **90j:57012**
Schultz, Reinhard E. Pontryagin numbers and periodic diffeomorphisms of spheres. **90h:57053**
Yang, Hua Jian Fiber bundle expressions for cobordism classes. (Chinese) (Not in MR)

57R77 Complex cobordism (U- and SU-cobordism) [see also 55N22]

Bahri, Anthony (*with* Bendersky, Martin; Gilkey, Peter B.) The relationship between complex bordism and K-theory for groups with periodic cohomology. **90i:57022**
Bendersky, Martin *see* **Bahri, Anthony; et al., 90i:57022**
Gilkey, Peter B. An analytic computation of the additive structure of $MU^*(BZ_4)$. **90m:57029**
— *see also* **Bahri, Anthony; et al., 90i:57022**
Hirzebruch, Friedrich Elliptic genera of level N for complex manifolds. **90m:57030**
Wu, Ch'ing Mu The ring structure of $U_*(Z_p)$. **90h:57043**

Items with secondary classifications in 57R77

Davis, Donald M. (*with* Mahowald, Mark) A new spectrum related to 7-connected cobordism. **90i:55009**
Fam Ngok An' Kyong Orders of k-invariants in cobordism theory with singularities. (Russian) **90d:55033**
Ginzburg, V. L. Cobordisms of symplectic and contact manifolds. **90i:58050**
Kamata, Masayoshi On the characteristic numbers of unitary semi-free S^1-manifolds. **90i:57026**
Mahowald, Mark *see* **Davis, Donald M., 90i:55009**
Ossa, E. Connective K-theory of elementary abelian groups. **90h:55009**
Robinson, Alan Composition products in RHom, and ring spectra of derived endomorphisms. **90i:55018**

57R80 h- and s-cobordism

Dar, Aparna Intersection Whitehead torsion and the s-cobordism theorem for pseudomanifolds. **90a:57050**
Kwasik, Sławomir (*with* Schultz, Reinhard E.) On s-cobordisms of metacyclic prism manifolds. **90e:57063**
Schultz, Reinhard E. *see* **Kwasik, Sławomir, 90e:57063**

Items with secondary classifications in 57R80

Cappell, Sylvain E. (*with* Shaneson, Julius L.) On four-dimensional s-cobordisms. II. **90i:57011**

Dovermann, Karl Heinz (*with* Rothenberg, Melvin) The generalized Whitehead torsion of a G-fibre homotopy equivalence. **90i:57028**

Freedman, Michael H. Poincaré transversality and four-dimensional surgery. **90a:57022**

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Shaneson, Julius L. *see* **Cappell, Sylvain E., 90i:57011**

57R85 Equivariant cobordism

Costenoble, Steven R. (*with* Waner, Stefan) Equivariant orientations and G-bordism theory. **90h:57044**

Kamata, Masayoshi (*with* Yung, Chung-Teh) On the characteristic numbers of maps and Z_2-equivariant transversality to the fixed point set. **90j:57026**

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Milgram, R. James *see* **Davis, James Frederic, 90d:57036**

57R90 Other types of cobordism [See 55N22]

Aguilar, M. A. Generators for the bordism algebra of immersions. **90b:57008**

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57R91 Equivariant algebraic topology of manifolds

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Costinescu, Cristian Nicolae K-théorie complexe de certains $\mathrm{U}(n)$-espaces. [Complex K-theory of certain $\mathrm{U}(n)$-spaces] **90e:55007**

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57R95 Realizing cycles by submanifolds

Morgan, Frank Least-volume representatives of homology classes in $G(2, \mathbf{C}^4)$. **90c:57030**

Tognoli, A. Analyticity of homology classes. **90d:57040**

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57R99 None of the above, but in this section

Cornea, Octav Some separation properties of hypersurfaces. (Romanian. English summary) **90d:57041**

Friedman, Robert David (*with* Morgan, John W.) Complex versus differentiable classification of algebraic surfaces. **90f:57039**

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57Sxx Topological transformation groups [see also 20F34, 22–XX, 54H15, 58D05]

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57S05 Topological properties of groups of homeomorphisms

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Farrell, F. T. (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**
– (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
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Linden, Martin (*with* Reckziegel, Helmut) On the differentiability of maps into Lie transformation groups. **90h:58010**
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57S10 Compact groups of homeomorphisms

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Notbohm, Dietrich The fixed-point conjecture for *p*-toral groups. **90a:57053**
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Kang, Eun Sook (*with* Sakong, Jungsook) Compact group actions on admissible manifolds. **90h:57051**
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57S15 Compact Lie groups of differentiable transformations

Hattori, Akio Circle actions on symplectic manifolds. **90j:57029**
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– Certain aspects of twisted linear actions. II. **90j:57036**
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57S17 Finite transformation groups

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– Homology representations of finite transformation groups. **90j:57031**
Assadi, Amir H. Varieties in finite transformation groups. **90e:57066**
– On finite domination and simple homotopy type of nonsimply-connected *G*-spaces. **90k:57045**
Bauer, Stefan A linearity theorem for group actions on spheres with applications to homotopy representations. **90e:57067**
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– Linking in cyclic representation forms. **90h:57049**
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– (*with* Washington, Lawrence C.) Relations between cyclotomic units and Smith equivalence of representations. **90e:57071**
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Kang, Eun Sook (*with* Sakong, Jungsook) Compact group actions on admissible manifolds. **90h:57051**
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Madsen, I. (*with* Rothenberg, Melvin) Equivariant pseudo-isotopies and K_{-1}. **90g:57028**
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– *see also* **Lee, Sungyun, 90m:57032**
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Weinberger, Shmuel Semifree locally linear PL actions on the sphere. **90j:57035**
– *G*-signatures and cyclotomic units. **90g:57029**
– All finite groups act on fake complex projective spaces. **90m:57033**
– *see also* **Cappell, Sylvain E.; et al., 90e:57070**
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– Integral representations of finite transformation groups. II. Non-simply-connected spaces. **90k:55009**
Dovermann, Karl Heinz (*with* Masuda, Mikiya; Suh, Dong Youp) Rigid versus nonrigid cyclic actions. **90d:57045**
Dwyer, W. G. (*with* Miller, Haynes; Neisendorfer, Joseph) Fibrewise completion and unstable Adams spectral sequences. **90i:55034**
Furuta, Mikio A remark on a fixed point of finite group action on S^4. **90g:57032**
Handel, Michael Periodic point free homeomorphism of T^2. **90c:58168**
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Inoue, Tsuyoshi The equivariant Whitehead torsions of equivariant homotopy equivalences between the unit spheres of representations of cyclic groups. **90h:57025**
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— A splitting theorem for manifolds with involution and two applications. **90d:57038**

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57S20 Noncompact Lie groups of transformations

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Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds modelled on principal bundles. **90f:57041**

Ôike, Hiroshi Twisted linear actions on projective spaces. **90j:57037**

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Uchida, Fuichi Certain aspects of twisted linear actions. **90d:57044**

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Hsiang, Wu Chung A personal perspective of differentiable transformation groups. **90i:57025**

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57S25 Groups acting on specific manifolds

Connolly, Francis X. (*with* Prassidis, Stratos) Groups which act freely on $\mathbf{R}^m \times S^{n-1}$. **90h:57052**

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Dylawerski, Grzegorz An S^1-degree and S^1-maps between representation spheres. **90a:57055**

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Furuta, Mikio A remark on a fixed point of finite group action on S^4. **90g:57032**

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— Fixed point sets of smooth group actions on disks and Euclidean spaces. **90i:57032**

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— *see also* **Kwasik, Sławomir, 90m:57034**

Skora, Richard K. *see* **Freedman, Michael H., 90f:57042**

Song, Ming Jie *see* **Zhang, Guang Hua,** (Not in MR)

Suh, Dong Youp *see* **Dovermann, Karl Heinz; et al., 90d:57045**

Thomas, Charles B. Free actions by p-groups on products of spheres and Yagita's invariant $po(G)$. **90m:57035**

Yokura, Shoji On free actions of finite abelian groups on T^3. **90d:57046**

Zhang, Guang Hua (*with* Song, Ming Jie) Groups of fixed-point-free rational automorphisms of 4-dimensional algebraic tori. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 57S25

Adem, Alejandro Cohomological restrictions on finite group actions. **90d:57042**

Anderson, Michael T. Moduli spaces of Einstein metrics on 4-manifolds. **90i:58199**

Bauer, Stefan A linearity theorem for group actions on spheres with applications to homotopy representations. **90e:57067**

Cappell, Sylvain E. (*with* Shaneson, Julius L.; Steinberger, Mark; Weinberger, Shmuel; West, James) The classification of nonlinear similarities over Z_{2^r}. **90e:57070**

Čerin, Zvonko On a class of group actions of the Hilbert cube. **90b:57006**

Churbanov, Yu. D. Φ-spaces and their subspaces that allow invariant framings. (Russian) **90m:53064**

Cusick, Larry W. Free actions on spaces with nonzero Euler characteristic. **90j:57033**

tom Dieck, Tammo Modification of linking in representation forms. **90h:57048**

— Linking in cyclic representation forms. **90h:57049**

— (*with* Petrie, Ted) The Abhyankar-Moh problem in dimension 3. **90i:14049**

Dovermann, Karl Heinz (*with* Washington, Lawrence C.) Relations between cyclotomic units and Smith equivalence of representations. **90e:57071**

Handel, Michael Periodic point free homeomorphism of T^2. **90c:58168**

Hattori, Akio Circle actions on symplectic manifolds. **90j:57029**

Husseini, S. Y. Coincidences for Grassmannian and associated spaces. **90k:55002**

Jaworowski, Jan A Borsuk-Ulam theorem for $\mathrm{O}(m)$. **90f:55005**

Kang, Eun Sook (*with* Sakong, Jungsook) Compact group actions on admissible manifolds. **90h:57051**

Khosrovyan, O. M. Homogeneous spaces with two ends and positive Euler characteristics. **90c:53122**

Kitada, Yasuhiko Relations among smooth Kervaire classes and smooth involutions on homotopy spheres. **90e:57051**

Kobayashi, Teiichi The orders of the canonical elements in $\widetilde{K}(L^n(2^r))$ and an application. **90k:55010**

Lee, Sungyun (*with* Suh, Dong Youp) Some linearity of cyclic actions on S^4 with two fixed points. **90m:57032**

Miller, Andy (*with* Zimmermann, B.) Large groups of symmetries of handlebodies. **90a:57015**

Morimoto, Masaharu Most of the standard spheres have one fixed point actions of A_5. **90i:57029**

Nagasaki, Ikumitsu Semilinear G-spheres and homotopy representation groups. **90j:57034**

Orlik, Peter (*with* Solomon, Louis) Braids and discriminants. **90g:57001**

Petrie, Ted *see* **tom Dieck, Tammo, 90i:14049**

Puppe, V. Simply connected manifolds without S^1-symmetry. **90a:57054**

Sakong, Jungsook *see* **Kang, Eun Sook, 90h:57051**

Shaneson, Julius L. *see* **Cappell, Sylvain E.; et al., 90e:57070**

Solomon, Louis *see* **Orlik, Peter, 90g:57001**

Steinberger, Mark *see* **Cappell, Sylvain E.; et al., 90e:57070**

Suh, Dong Youp *see* **Lee, Sungyun, 90m:57032**

Toledo, Domingo Representations of surface groups in complex hyperbolic space. **90a:57016**

Wang, Shi Cheng Essential invariant circles of surface automorphisms of finite order. **90e:57026**

Washington, Lawrence C. *see* **Dovermann, Karl Heinz, 90e:57071**

Weinberger, Shmuel All finite groups act on fake complex projective spaces. **90m:57033**

— *see also* **Cappell, Sylvain E.; et al., 90e:57070**

West, James *see* **Cappell, Sylvain E.; et al., 90e:57070**

Woldar, Andrew J. Genus actions of finite simple groups. **90h:20038**

— On Hurwitz generation and genus actions of sporadic groups. **90i:20020**

Yamakawa, Aiko Fixed-point free $\mathrm{SU}(n)$-actions. **90h:57047**

Zimmermann, B. *see* **Miller, Andy, 90a:57015**

57S30 Discontinuous groups of transformations

Apanasov, B. N. The geometry of Nielsen's hull for a Kleinian group in space and quasiconformal mappings. **90k:57046**

Ghys, Étienne (*with* Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] **90c:57035**

Hildebrand, Martin (*with* Weeks, Jeffrey) A computer generated census of cusped hyperbolic 3-manifolds. **90f:57043**

Lee, Youn W. On normal torsion-free finite index subgroups of polyhedral groups. **90d:57047**

Matsumoto, Shigenori Topological aspects of conformally flat manifolds. **90i:57033**

McCullough, Darryl (*with* Miller, Andy) Manifold covers of 3-orbifolds with geometric pieces. **90c:57036**

Miller, Andy *see* **McCullough, Darryl, 90c:57036**

Morgan, John W. Trees and hyperbolic geometry. **90f:57044**

Šarac, Marica A compact hyperbolic space form derived from a plane form. **90e:57072**

Sergiescu, Vlad *see* **Ghys, Étienne, 90c:57035**

Susskind, Perry Kleinian groups with intersecting limit sets. **90f:57045**

Watabe, Tsuyoshi Maximal toral action on aspherical manifolds $\Gamma\backslash G/K$ and G/H. **90a:57056**

Weeks, Jeffrey *see* **Hildebrand, Martin, 90f:57043**

Items with secondary classifications in 57S30

Collins, Donald J. Cohomological dimension and symmetric automorphisms of a free group. **90e:20035**

Dunbar, William D. Geometric orbifolds. **90k:22011**

Harvey, W. J. Modular groups and representation spaces. **90a:14037**

Hejhal, Dennis A. Regular b-groups and repeated Dehn twists. **90f:30057**

Kojima, Sadayoshi Isometry transformations of hyperbolic 3-manifolds. **90c:57033**

Matsumoto, Shigenori On discrete group actions on the unit circle. **90d:58123**

Mennicke, Jens L. On Fibonacci groups and some other groups. (*see* **90h:20004**)

Miller, Andy (*with* Zimmermann, B.) Large groups of symmetries of handlebodies. **90a:57015**

Paulin, Frédéric The Gromov topology on $\mathbf{R}$-trees. **90k:57015**

Potyagaĭlo, L. D. Three-dimensional Kleinian groups that are isomorphic to the fundamental group of the Haken manifold. **90k:57020**

Tukia, Pekka A rigidity theorem for Möbius groups. **90i:20051**

Weinberger, Shmuel All finite groups act on fake complex projective spaces. **90m:57033**

Zimmermann, B. *see* **Miller, Andy, 90a:57015**

57S99 None of the above, but in this section

Smith, Larry Replacing homotopy actions by topological actions. II. **90d:57048**

Items with secondary classifications in 57S99

Andersson, Lars Åke On the space of asymptotically Euclidean metrics. **90e:58014**
Goldman, William M. (*with* Kamishima, Yoshinobu) Topological rigidity of developing maps with applications to conformally flat structures. **90f:53060**
– Geometric structures on manifolds and varieties of representations. **90i:57024**
Grissom, Charles (*with* Thompson, Gerard; Wilkens, George) Linearization of second order ordinary differential equations via Cartan's equivalence method. **90b:34058**
Kamishima, Yoshinobu *see* **Goldman, William M., 90f:53060**
Koras, Mariusz (*with* Russell, P.) Codimension 2 torus actions on affine n-space. **90j:14061**
Makeev, V. V. The Knaster problem on the continuous mappings from a sphere to a Euclidean space. (Russian. English summary) **90e:55006**
– The Knaster problem and almost spherical sections. **90d:55005**
Natanzon, S. M. Finite groups of homeomorphisms of surfaces, and real forms of complex algebraic curves. (Russian) **90b:14038**
Petrie, Ted Smooth conjugacy of algebraic actions on affine varieties. **90j:14064**
Phillips, N. Christopher Equivariant K-theory for proper actions and C^*-algebras. **90a:46182**
– Equivariant K-theory for proper actions. II. Some cases in which finite-dimensional bundles suffice. **90a:46183**
Russell, P. *see* **Koras, Mariusz, 90j:14061**
Thompson, Gerard *see* **Grissom, Charles; et al., 90b:34058**
Tukia, Pekka A remark on a paper by Floyd. **90b:30054**
Wilkens, George *see* **Grissom, Charles; et al., 90b:34058**

57Txx Homology and homotopy of topological groups and related structures

57T10 Homology and cohomology of Lie groups

Cathelineau, J. L. Sur l'homologie de SL_2 à coefficients dans l'action adjointe. [SL_2-homology with coefficients in the adjoint action] **90h:57054**
Kane, Richard M. (*with* Moreno, Guillermo) Spherical homology classes in the bordism of Lie groups. **90e:57073**
Moreno, Guillermo *see* **Kane, Richard M., 90e:57073**
Rao, Vidhyanath The bar spectral sequence converging to $h_*(SO(2n+1))$. **90f:57046**

Items with secondary classifications in 57T10

Arabia, Alberto Cohomologie T-équivariante de la variété de drapeaux d'un groupe de Kac-Moody. (English summary) [T-equivariant cohomology of the flag manifold of a Kac-Moody group] **90i:32042**
Henn, Hans-Werner Classifying spaces with injective mod p cohomology. **90d:55028**
Hitta, Amara Suite spectrale de Hochschild-Serre en cohomologies lisse et continue des groupes localement compacts totalement discontinus. (English summary) [Hochschild-Serre spectral sequence in smooth and continuous cohomology of totally disconnected locally compact groups] **90e:22019**
Kroll, Ove The cohomology of the finite general linear group. **90h:20066**
Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds modelled on principal bundles. **90f:57041**
Mahmud, Zafer Unstable atomicity of $\Omega\,\mathrm{Spin}(r)$. **90h:55012**
Pittie, Harsh V. The Dolbeault-cohomology ring of a compact, even-dimensional Lie group. **90e:32035**
Raymond, Frank *see* **Lee, Kyung Bai, 90f:57041**

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Bressler, Paul (*with* Evens, Sam) The Schubert calculus, braid relations, and generalized cohomology. **90e:57074**
Cenkl, Bohumil (*with* Porter, Richard) L'anneau de cohomologie entière d'une nilvariété. (English summary) [The integral cohomology ring of a nilmanifold] **90a:57057**
Evens, Sam *see* **Bressler, Paul, 90e:57074**
Porter, Richard *see* **Cenkl, Bohumil, 90a:57057**
Shchetinin, A. N. On a class of compact homogeneous spaces. I. **90d:57049**

Items with secondary classifications in 57T15

Douglas, R. R. (*with* Rutherford, A. R.) Berry phase and compact transformation groups. **90a:81045**
Freitas, Raphaël K-théorie réelle des variétés de Stiefel quaternioniques. (English summary) [KO-theory of quaternionic Stiefel manifolds] **90j:55009**
Frohliger, John A. Maximal homotopy Lie subgroups of maximal rank. **90c:55016**
Masbaum, Gregor Sur l'algèbre de cohomologie entière du classifiant du groupe de jauge. (English summary) [On the integral cohomology algebra of the classifying space of the gauge group] **90e:55032**
Rutherford, A. R. *see* **Douglas, R. R., 90a:81045**

57T20 Homotopy groups of topological groups and homogeneous spaces

Yamaguchi, Atsushi On the p-regularity of Stiefel manifolds. **90h:57055**

Items with secondary classifications in 57T20

Crabb, M. C. (*with* Knapp, K.) James numbers. **90a:55022**
Douglas, R. R. (*with* Rutherford, A. R.) Berry phase and compact transformation groups. **90a:81045**
Greenberg, Peter Homology of some groups of pl-homeomorphisms of the line. **90i:20054**
Hebda, James J. (*with* Moylan, Patrick Joseph) A topological criterion for group decompositions. **90a:53057**
Jiang, Cai Kun On the fundamental groups of noncompact symmetric spaces. (Chinese) **90e:22016**
Knapp, K. *see* **Crabb, M. C., 90a:55022**
Moylan, Patrick Joseph *see* **Hebda, James J., 90a:53057**
Rutherford, A. R. *see* **Douglas, R. R., 90a:81045**
Wang, Qi Ming On totally geodesic spheres in Grassmannians and $O(n)$. **90f:53101**

57T25 Homology and cohomology of H-spaces

Nguyễn Hữu Việt Hưng Classes de Dickson et algèbres de cohomologie des espaces de lacets itérés. (English summary) [Dickson classes and cohomology algebras of iterated loop spaces] **90c:57037**

Items with secondary classifications in 57T25

Boyer, C. P. (*with* Mann, Benjamin M.) Instantons and homotopy. **90f:58031**
Lin, James P. Lie groups from a homotopy point of view. **90d:55012**
Mann, Benjamin M. *see* **Boyer, C. P., 90f:58031**
Rao, Vidhyanath The Hopf algebra structure of the complex bordism of the loop spaces of the special orthogonal groups. **90f:55009**

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Items with secondary classifications in 57T30

Rao, Vidhyanath The bar spectral sequence converging to $h_*(SO(2n+1))$. **90f:57046**
— On the Morava K-theories of $SO(2n+1)$. **90k:55011**

57T99 None of the above, but in this section

Bödigheimer, C.-F. (*with* Cohen, Frederick R.) Rational cohomology of configuration spaces of surfaces. **90e:57075**
Cohen, Frederick R. *see* **Bödigheimer, C.-F., 90e:57075**

Items with secondary classifications in 57T99

Charney, R. M. (*with* Cohen, Frederick R.) A stable splitting for the mapping class group. **90a:55021**
Cohen, Frederick R. Artin's braid groups, classical homotopy theory, and sundry other curiosities. **90a:20077**
— *see also* **Charney, R. M., 90a:55021**
Friedlander, Eric M. (*with* Mislin, Guido) Conjugacy classes of finite solvable subgroups in Lie groups. **90f:22017**
Mezey, Paul Shape group studies of molecular similarity: shape groups and shape graphs of molecular contour surfaces. **90j:92062**
Mislin, Guido *see* **Friedlander, Eric M., 90f:22017**
Ōshima, Hideaki Codegree of simple Lie groups. **90m:55015**
Vodop'yanov, S. K. Potential theory on homogeneous groups. **90b:31010**

58–XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46–XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22]

58–01 Elementary exposition; textbooks

Arnol'd, V. I. ★ Mathematische Methoden der klassischen Mechanik. (German) [Mathematical methods of classical mechanics] **90e:58001**
Balint, Şt. ★ Analiza pe varietăţi. (Romanian) [Analysis on manifolds] **90m:58001**
(Madzharova, Yana) *see* **Nirenberg, L., 90e:58002**
(Möbius, Peter) *see* **Arnol'd, V. I., 90e:58001**
Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) **90e:58002**

Items with secondary classifications in 58–01

Abraham, Ralph H. (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 2. **90m:58057a**
— (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 3. **90m:58057b**
— (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 4. **90m:58057c**
(Antelmann, Horst) *see* **Dieudonné, Jean, 90e:00001**
Barnsley, Michael F. ★ Fractals everywhere. **90e:58080**
Binz, E. (*with* Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. **90a:58045**
(Boll, Ludwig) *see* **Dieudonné, Jean, 90e:00001**
Carroll, Robert Wayne ★ Mathematical physics. **90g:00002**
Dieudonné, Jean ★ Grundzüge der modernen Analysis. 2. (German) [Fundamentals of modern analysis. 2] **90e:00001**
Dodson, C. T. J. ★ Categories, bundles and spacetime topology. **90c:53164**
Dorodnitsyn, V. A. (*with* Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) **90m:58230**
Dubrovin, B. A. (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I] **90h:53001a**

— (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. II. (Italian) [Modern geometry. Methods and applications. Vol. II] **90h:53001b**
Elenin, G. G. *see* **Dorodnitsyn, V. A., 90m:58230**
Fischer, Hans Rudolf *see* **Binz, E.; et al., 90a:58045**
Flanders, Harley ★ Differential forms with applications to the physical sciences. **90k:53001**
Fomenko, A. T. *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
Francaviglia, Mauro ★ Elements of differential and Riemannian geometry. **90a:53001**
Iooss, G. (*with* Joseph, Daniel D.) ★ Elementary stability and bifurcation theory. **90i:34001**
Joseph, Daniel D. *see* **Iooss, G., 90i:34001**
Kocharovs'kiĭ, V. G. *see* **Kovantsov, N. I.; et al., 90k:53002**
Kovantsov, N. I. (*with* Zrazhevs'ka, G. M.; Kocharovs'kiĭ, V. G.; Mikhaĭlovs'kiĭ, V. I.) ★ Дифференциальная геометрия, топология, тензорный анализ. (Russian) [Differential geometry, topology, tensor analysis] **90k:53002**
Mikhaĭlovs'kiĭ, V. I. *see* **Kovantsov, N. I.; et al., 90k:53002**
Novikov, S. P. *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
(Panasenko, Vitalij) *see* **Dubrovin, B. A.; et al., 90h:53001a** *and* **90h:53001b**
Postnikov, M. M. ★ Дифференциальная геометрия. (Russian) [Differential geometry] **90h:53002**
Ruelle, D. The Claude Bernard Lecture, 1989. Deterministic chaos: the science and the fiction. **90m:58140**
Shaw, Christopher D. *see* **Abraham, Ralph H., 90m:58057a; 90m:58057b** *and* **90m:58057c**
Śniatycki, Jędrzej *see* **Binz, E.; et al., 90a:58045**
Zrazhevs'ka, G. M. *see* **Kovantsov, N. I.; et al., 90k:53002**

58-02 Advanced exposition (research surveys, monographs, etc.)

(von Helmholtz, Hermann) *see* **Hermann, Robert, 90h:58001**
Hermann, Robert ★ Topics in physical geometry. **90h:58001**

Items with secondary classifications in 58-02

Arnol'd, V. I. (*with* Vishik, M. I.; Il'yashenko, Yu. S.; Kalashnikov, A. S.; Kondrat'ev, V. A.; Kruzhkov, S. N.; Landis, E. M.; Millionshchikov, V. M.; Oleĭnik, O. A.; Filippov, A. F.; Shubin, M. A.) Some unsolved problems in the theory of differential equations and mathematical physics. **90m:00003**
Atiyah, Michael The impact of physics on geometry. **90d:00055**
Blank, M. L. Small perturbations of chaotic dynamical systems. (Russian) **90m:58181**
(Boron, Leo F.) *see* **Zeidler, Eberhard, 90b:49005**
Eckmann, J.-P. Resonances in dynamical systems. **90m:58114**
Euler, N. *see* **Steeb, W.-H., 90h:58045**
Filippov, A. F. *see* **Arnol'd, V. I.; et al., 90m:00003**
Fomenko, A. T. ★ Integrability and nonintegrability in geometry and mechanics. **90c:58054**
— (*with* Trofimov, V. V.) ★ Integrable systems on Lie algebras and symmetric spaces. **90d:58035**
— ★ Симплектическая геометрия. (Russian) [Symplectic geometry] **90k:58082**
Gromov, Mikhael L. ★ Partial differential relations. **90a:58201**
Il'yashenko, Yu. S. *see* **Arnol'd, V. I.; et al., 90m:00003**
Kalashnikov, A. S. *see* **Arnol'd, V. I.; et al., 90m:00003**
(Karaulov, A.) *see* **Fomenko, A. T., 90d:58035**
Karoubi, Max Cyclic homology and characteristic classes of bundles with additional structures. **90d:58149**
Kondrat'ev, V. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
Kruzhkov, S. N. *see* **Arnol'd, V. I.; et al., 90m:00003**
Landis, E. M. *see* **Arnol'd, V. I.; et al., 90m:00003**
Millionshchikov, V. M. *see* **Arnol'd, V. I.; et al., 90m:00003**
Oleĭnik, O. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
Palis, J. (*with* Takens, Floris) ★ Homoclinic bifurcations and hyperbolic dynamics. **90a:58143**
(Quandt, Juergen) *see* **Zeidler, Eberhard, 90b:00004**
(Rayfield, P. D.) *see* **Fomenko, A. T., 90d:58035**
Shubin, M. A. *see* **Arnol'd, V. I.; et al., 90m:00003**
Steeb, W.-H. (*with* Euler, N.) ★ Nonlinear evolution equations and Painlevé test. **90h:58045**
Takens, Floris *see* **Palis, J., 90a:58143**
Trofimov, V. V. *see* **Fomenko, A. T., 90d:58035**
(Tsaplina, M. V.) *see* **Fomenko, A. T., 90c:58054**
Vishik, M. I. *see* **Arnol'd, V. I.; et al., 90m:00003**
(Weisman, A.) *see* **Fomenko, A. T., 90d:58035**
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. III. **90b:49005**
— ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

58-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 58-03

Arnol'd, V. I. ★ Гюйгенс и Барроу, Ньютон и Гук. (Russian) [Huygens and Barrow, Newton and Hooke] **90i:01008**
(Barrow, Isaac) *see* **Arnol'd, V. I., 90i:01008**
Bondi, Hermann The prehistory of chaos. **90c:58107**
Bott, Raoul The topological constraints on analysis. **90j:01034**
Danilov, Yu. A. Nonlinear dynamics: Poincaré and Mandelstam. **90m:01032**
Dell'Aglio, Luca (*with* Israel, Giorgio) La théorie de la stabilité et l'analyse qualitative des équations différentielles ordinaires dans les mathématiques italiennes: le point de vue de Tullio Levi-Civita. [The theory of stability and qualitative analysis of ordinary differential equations in Italian mathematics: the point of view of Tullio Levi-Civita] **90i:01021**
Gutzwiller, Martin C. Chaos and symmetry in the history of mechanics. (Italian and Russian summaries) **90k:01002**
Hildebrandt, Stefan (*with* Tromba, Anthony) ★ Panoptimum. (German) **90k:00007**
(Hooke, Robert) *see* **Arnol'd, V. I., 90i:01008**
(Huygens, Christiaan) *see* **Arnol'd, V. I., 90i:01008**
Israel, Giorgio *see* **Dell'Aglio, Luca, 90i:01021**
(Kolmogorov, A. N.) *see* **Sinaĭ, Ya. G., 90b:01055**
Kovalevsky, J. Applications of computers to celestial mechanics. **90j:01138**
(Leibniz, Gottfried Wilhelm) *see* **Arnol'd, V. I., 90i:01008**
(Levi-Civita, Tullio) *see* **Dell'Aglio, Luca, 90i:01021**
(Liao, Shan Tao) *see* **Zhang, Zhu Sheng, 90d:01080**
Mira, Christian Some historical aspects concerning the theory of dynamic systems. **90k:01022**
(Newton, I.) *see* **Arnol'd, V. I., 90i:01008**
Sinaĭ, Ya. G. About A. N. Kolmogorov's work on the entropy of dynamical systems. **90b:01055**
Teissier, Bernard Travaux de Thom sur les singularités. [The works of Thom on singularities] **90c:01106**
(Thom, René) *see* **Teissier, Bernard, 90c:01106**
Tromba, Anthony *see* **Hildebrandt, Stefan, 90k:00007**
Uhlenbeck, K. Commentary on "analysis in the large". **90m:01043**
Zhang, Zhu Sheng The research works of Professor Shan Tao Liao in differentiable dynamical systems. (Chinese. English summary) **90d:01080**

58-04 Explicit machine computation and programs (not the theory of computation or programming)

Abelson, Harold (*with* Eisenberg, Michael; Halfant, Matthew; Katzenelson, Jacob; Sacks, Elisha; Sussman, Gerald J.; Wisdom, J.; Yip, Kenneth) Intelligence in scientific computing. **90e:58003**
Armbruster, Dieter Computer algebra programs for dynamical systems theory. **90b:58001**
Cowell, R. G. (*with* Wright, F. J.) CATFACT: computer algebraic tools for applications of catastrophe theory. (*see* **90i:68007**)
Eisenberg, Michael *see* **Abelson, Harold; et al., 90e:58003**
Halfant, Matthew *see* **Abelson, Harold; et al., 90e:58003**
Katzenelson, Jacob *see* **Abelson, Harold; et al., 90e:58003**
Sacks, Elisha *see* **Abelson, Harold; et al., 90e:58003**
Sussman, Gerald J. *see* **Abelson, Harold; et al., 90e:58003**
Wisdom, J. *see* **Abelson, Harold; et al., 90e:58003**
Wright, F. J. *see* **Cowell, R. G., (90i:68007)**
Yip, Kenneth *see* **Abelson, Harold; et al., 90e:58003**

Items with secondary classifications in 58-04

Alexander, N. A. Production of computational portraits of bounded invariant manifolds. **90i:58134**
Arney, David C. (*with* Robinson, B. T.) Exhibiting chaos and fractals with a microcomputer. **90i:58103**
Bartlett, James H. Stability of an area-preserving mapping. **90g:58117**
Bocharov, A. V. (*with* Bronshteĭn, M. L.) Efficiently implementing two methods of the geometrical theory of differential equations: an experience in algorithm and software design. **90j:65002**
Boult, T. (*with* Sikorski, K.) An optimal complexity algorithm for computing the topological degree in two dimensions. **90h:65084**
Bronshteĭn, M. L. *see* **Bocharov, A. V., 90j:65002**
Coffey, Shannon (*with* Deprit, André; Deprit, Etienne; Healy, Liam) Painting the phase space portrait of an integrable dynamical system. **90m:58148**
Coppola, V. T. (*with* Rand, Richard H.) Computer algebra, Lie transforms and the nonlinear stability of L_4. (Not in MR)
— (*with* Rand, Richard H.) Symbolic computation and perturbation methods using elliptic functions. **90c:65110**
— (*with* Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4. (German and Russian summaries) **90i:58045**
Cushman, Richard (*with* Sanders, Jan A.) The constrained normal form algorithm. **90i:58046**
Deprit, André *see* **Coffey, Shannon; et al., 90m:58148**
Deprit, Etienne *see* **Coffey, Shannon; et al., 90m:58148**
Devaney, Robert L. Film and video as a tool in mathematical research. **90g:58058**
Doedel, Eusebius J. (*with* Friedman, Mark J.) Numerical computation of heteroclinic orbits. **90j:58107**
Franquelo, Leopoldo G. *see* **Freire, Emilio; et al., 90k:58151**
Freire, Emilio (*with* Gamero, Estanislao; Ponce, Enrique) An algorithm for symbolic computation of Hopf bifurcation. **90j:58110**
— (*with* Gamero, Estanislao; Ponce, Enrique; Franquelo, Leopoldo G.) An algorithm for symbolic computation of center manifolds. **90k:58151**
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Fushchich, V. I. (*with* Kornyak, V. V.) Computer algebra application for determining Lie and Lie-Bäcklund symmetries of differential equations. **90d:58166**
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Gerdt, V. P. (*with* Zharkov, A. Yu.; Svinolupov, S. I.; Shabat, A. B.) Application of computer algebra to the investigation of the integrability of nonlinear evolution systems. **90e:65176**
— (*with* Zharkov, A. Yu.) ★ Решение полиномиальных уравнений, возникающих при классификации интегрируемых систем типа связанного уравнения Кортевега-де Вриза (Russian) [Solution of polynomial equations that arise in the classification of integrable systems of the coupled Korteweg-de Vries equation type] **90i:58068**
— (*with* Zharkov, A. Yu.) Computer classification of integrable seventh order MKdV-like equations. (*see* **90i:68007**)
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Guckenheimer, John (*with* Rand, Richard H.; Schlomiuk, Dana) Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. **90g:58104**
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ürgens, Hartmut *see* **Peitgen, Heinz-Otto, 90i:58088**
Kersten, Paul H. M. Software to compute infinitesimal symmetries of exterior differential systems, with applications. **90j:58160**
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— *see also* **Fushchich, V. I., 90d:58166**
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Oevel, W. (*with* Fuchssteiner, Benno; Zhang, Hong Wei[1]; Ragnisco, O.) Mastersymmetries, angle variables, and recursion operator of the relativistic Toda lattice. **90j:58061**
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Rand, Richard H. *see* **Coppola, V. T., 90c:65110; Guckenheimer, John; et al., 90g:58104; Coppola, V. T., 90i:58045** *and* (Not in MR)
Reeve, D. E. Some relations of the Mandelbrot and Julia sets: a computational exploration. (Not in MR)
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Tongue, Benson H. (*with* Gu, Keqin) Adaptive mesh strategies for interpolated mapping procedures. **90j:70003**
Waugh, F. R. (*with* Marcus, C. M.; Westervelt, R. M.) Fixed-point attractors in analog neural computation. **90m:92031**
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Beijing ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] **90k:58001**
Bibliography:
  Conley, Charles ★ Charles Conley memorial volume. **90c:58001**
Biography:
  Conley, Charles ★ Charles Conley memorial volume. **90c:58001**
Boulder, CO ★ The connection between infinite-dimensional and finite-dimensional dynamical systems. **90h:58002**
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  Symplectic and Mechanical Geometry ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] **90m:58002**
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  Modern Mathematics and Mechanics ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] **90k:58001**
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Modern mathematics and mechanics ★ Jindai shuxue yu lixue. (Chinese) [Modern mathematics and mechanics] **90k:58001**
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Symmetries of partial differential equations ★ Symmetries of partial differential equations. Part I. (Not in MR)
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(Bureš, Jarolím) *see* **Proceedings: School on Geometry and Physics, 90d:00042**
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(Elworthy, K. David) *see* **Stochastic analysis, path integration and dynamics, 90e:60005**
(Fargue, Daniel) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
(Gill, Tepper L.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**
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(Hennig, J. D.) *see* **Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 90i:00004**
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(Kaminker, J.) *see* **Geometric and topological invariants of elliptic operators, 90k:58206**
(Kirchgraber, U.) *see* **Dynamics reported, 90a:58041**
(Leon, Jérôme Jp.) *see* **Nonlinear evolutions, 90k:00029**
(Lochak, G.) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
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(Moser, Jürgen K.) *see* **Analysis, et cetera, 90m:00014**
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(Sharipov, Sh. R.) *see* **Qualitative and analytic methods in the dynamics of systems, 90a:00011**
(Souček, Vladimír) *see* **Proceedings: School on Geometry and Physics, 90d:00042**
(Sulem, C.) *see* **Integrable systems and applications, 90i:35002**
(Tournier, E.) *see* **Computer algebra and differential equations, 90m:12002**
(Walther, Hans-Otto) *see* **Dynamics reported, 90a:58041**
(Zachary, Woodford W.) *see* **Nonlinear semigroups, partial differential equations and attractors, 90f:00006**
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Birth of Birkhoff, George David ★ Dynamical systems: a renewal of mechanism. **90i:58038**
Attractors, inertial manifolds and their approximation ★ Attractors, inertial manifolds and their approximation. **90c:58047**
Balaruc-les-Bains ★ Nonlinear evolutions. **90k:00029**
Birthday:
Bogolyubov, N. N. ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
Brunswick, ME ★ Geometric and topological invariants of elliptic operators. **90k:58206**
Canberra ★ Miniconference on Geometry and Physics. **90h:00015**
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Computer algebra and differential equations ★ Computer algebra and differential equations. **90m:12002**
Conference:
Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. **90i:00004**
Geometric and Topological Invariants of Elliptic Operators ★ Geometric and topological invariants of elliptic operators. **90k:58206**
Infinite-dimensional Dissipative Systems ★ Attractors, inertial manifolds and their approximation. **90c:58047**
Topological Fixed Point Theory and Applications ★ Topological fixed point theory and applications. **90i:55001**
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Integrable systems and applications ★ Integrable systems and applications. **90i:35002**
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— ★ Topological fixed point theory and applications. **90i:55001**
Lecture Notes in Physics ★ Integrable systems and applications. **90i:35002**
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Marseille-Luminy ★ Attractors, inertial manifolds and their approximation. **90c:58047**
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NATO Advanced Study Institute:
Variational Methods in Nonlinear Problems ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**
Nonlinear evolutions ★ Nonlinear evolutions. **90k:00029**
Nonlinear semigroups, partial differential equations and attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Proceedings:
Conference on Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XV International Conference on Differential Geometric Methods in Theoretical Physics. **90i:00004**
School on Geometry and Physics ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
Qualitative and analytic methods in the dynamics of systems ★ Качественные и аналитические методы в динамике систем. (Russian) [Qualitative and analytic method in the dynamics of systems] **90a:00011**
Recent developments in geometry ★ Recent developments in geometry. **90i:53002**
Research on complex analytic geometry and related topics ★ Fukusō kaiseki kinangaku to sono shuhen no kenkyū. (Japanese) [Research on complex analytic geometry and related topics] **90d:14003**
School:
Geometry and Physics ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
Seminar:
Geometry of Moduli Spaces and 4-Dimensional Manifolds ★ Moduli kukan noki nan to 4 jikan tayotai. II. (Japanese) [Geometry of moduli spaces and 4-dimensional manifold II] **90a:32001**
Session:
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Srní ★ Proceedings of the Winter School on Geometry and Physics. **90d:00042**
Statistical mechanics and the theory of dynamical systems ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
Stochastic analysis, path integration and dynamics ★ Stochastic analysis, path integration and dynamics. **90e:60005**
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Functional-analytic Study of Generalized Functions ★ Chōkansūron no kansū kaisekiteki kenkyū. (Japanese) [Functional-analytic study of generalized functions] **90m:46006**
Nonlinear Semigroups, Partial Differential Equations and Attractors ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
Research on Complex Analytic Geometry and Related Topics ★ Fukusō kaiseki kinangak to sono shuhen no kenkyū. (Japanese) [Research on complex analytic geometry and related topics] **90d:14003**
Theory of Operator Algebras and Index Theory ★ Sayosokan ron to shisū riron. (Japanes [Theory of operator algebras and index theory] **90d:46005**
Theory of operator algebras and index theory ★ Sayosokan ron to shisū riron. (Japanese) [Theory of operator algebras and index theory] **90d:46005**
Tianjin ★ Topological fixed point theory and applications. **90i:55001**
Topological fixed point theory and applications ★ Topological fixed point theory and applications. **90i:55001**
Topological methods in convex analysis ★ Méthodes topologiques en analyse convexe. (French) [Topological methods in convex analysis] **90m:47008**
Warwick ★ Stochastic analysis, path integration and dynamics. **90e:60005**
Washington, DC ★ Nonlinear semigroups, partial differential equations and attractors. **90f:00006**
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Integrable Systems and Applications ★ Integrable systems and applications. **90i:35002**
Nonlinear Evolution Equations and Dynamical Systems ★ Nonlinear evolutions. **90k:00029**

58Axx General theory of differentiable manifolds

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Balint, Şt. ★ Analiza pe varietăţi. (Romanian) [Analysis on manifolds] **90m:58001**

58A05 Differentiable manifolds, foundations

Cromme, L. J. Manifolds with cusps. **90k:58002**
Gago Couso, Felipe Morse germs in S.D.G. **90a:58002**
Gruszczak, J. (*with* Heller, Michael; Multarzyński, P.) A generalization of manifolds as space-time models. **90a:58003**
Heller, Michael *see* **Gruszczak, J.; et al., 90a:58003**
Kolář, Ivan (*with* Slovák, Jan) On the geometric functors on manifolds. **90j:58002**
Minguez, M. Carmen Some combinatorial calculus on Lie derivative. (French summary) **90b:58003**
Multarzyński, P. *see* **Gruszczak, J.; et al., 90a:58003**
Papuc, Dan I. On the geometry of manifolds with partial orderings (abstract). (*see* **90d:53002**)
— Partial orderings on differentiable manifolds. **90m:58003**
Slovák, Jan *see* **Kolář, Ivan, 90j:58002**
Tống Văn Đú’c Une caractérisation du fibré cotangent. (English summary) [A characterization of the cotangent bundle] **90b:58004**

Items with secondary classifications in 58A05

Acquistapace, Francesca Essential coverings for differentiable manifolds. (Italian) **90a:57035**
Adelman, Murray (*with* Kock, Anders) A note on closed ideals in rings of smooth functio **90d:46100**

Binz, E. (*with* Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. **90a:58045**

Borceux, F. (*with* Van den Bossche, G.) An essay on noncommutative topology. **90h:46106**

Doupovec, Miroslav Natural operators transforming vector fields to the second order tangent bundle. (Russian and Czech summaries) **90m:58007**

Fischer, Hans Rudolf *see* **Binz, E.; et al., 90a:58045**

Gähler, Werner Monads and convergence. **90b:18007**

Hahn, Jörg M. Geometric continuous patch complexes. **90c:68077**

Kock, Anders *see* **Adelman, Murray, 90d:46100**

Papuc, Dan I. On the geometry of a differentiable manifold with a partial ordering (or with a field of tangent cones). **90j:53082**

Pradines, Jean Variétés d'orbites. [Orbit manifolds] **90f:53062**

Śniatycki, Jędrzej *see* **Binz, E.; et al., 90a:58045**

Tulczyjew, W. M. (*with* Zakrzewski, Stanisław) Partial categories. (Italian summary) **90h:18001a**

– (*with* Urbański, P.; Zakrzewski, Stanisław) A pseudocategory of principal bundles. (Italian summary) **90g:55015**

– (*with* Zakrzewski, Stanisław) Composition classes and partial categories. (Italian summary) **90h:18001b**

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58A07 Real-analytic and Nash manifolds [see also 32C05]

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Bochnak, J. (*with* Coste, M.; Roy, M.-F.) ★ Géométrie algébrique réelle. (French) [Real algebraic geometry] **90b:14030**

– (*with* Kucharz, W.) On real-algebraic models of smooth manifolds. **90a:14029**

Coste, M. *see* **Bochnak, J.; et al., 90b:14030**

Cucker, Felipe Nash functions over real spectra. **90i:14026**

Guaraldo, Francesco Extensions of isomorphisms among analytic or real Nash spaces. (Italian. English summary) **90h:32022**

Kucharz, W. Sums of $2n$th powers of real meromorphic functions. **90f:14013**

– *see also* **Bochnak, J., 90a:14029**

Ramanakoraisina, Rodolphe Bezout theorem for Nash functions. **90j:58006**

Roy, M.-F. *see* **Bochnak, J.; et al., 90b:14030**

Shiota, Masahiro Extension et factorisation de fonctions de Nash C^∞. (English summary) [Extension and factorization of C^∞ Nash functions] **90h:32017**

Yamato, Kazuo Algebraic Riemann manifolds. **90h:53046**

58A10 Differential forms

Chen, Xiu Run *see* **Wang, Ji Chun, 90a:58004**

Mihuţ, I. Cochain complexes on fibre bundles. (Romanian summary) **90h:58004**

– About differential forms on fibre bundles. **90i:58002**

– Differential forms on fibre bundles. **90i:58001**

Ohsawa, Takeo A generalization of the Weitzenböck formula and an analytic approach to Morse theory. **90k:58003**

Ongay, Fausto Instantons: physics, geometry and magic. (Spanish) **90c:58005**

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Trenčevski, Kostadin Covariant multiple integrals of tensors and a generalization of Stokes' theorem. **90i:58003**

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Wang, Ji Chun (*with* Chen, Xiu Run) Cohomology differential forms, linear models and variational principles. (Chinese. English summary) **90a:58004**

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Aomoto, K. Special value of the hypergeometric function $_3F_2$ and connection formulae among asymptotic expansions. **90f:33001**

de Azcárraga, J. A. (*with* Townsend, Paul K.) Superspace geometry and classification of supersymmetric extended objects. **90h:17022**

Benn, I. M. (*with* Tucker, R. W.) Representing spinors with differential forms. **90f:53030**

Bismut, Jean-Michel (*with* Bost, Jean-Benoît) Fibrés déterminants, métriques de Quillen et dégénérescence des courbes. (English summary) [Determinant line bundles, Quillen metrics and degenerating curves] **90a:58162**

Bost, Jean-Benoît *see* **Bismut, Jean-Michel, 90a:58162**

Bruzzo, Ugo (*with* Landi, Giovanni) Simple proof of Weil triviality in supersymmetric gauge theories. **90h:53091**

Cartier, Pierre Jacobiennes généralisées, monodromie unipotente et intégrales itérées. [Generalized Jacobians, unipotent monodromy and iterated integrals] **90d:32024**

Du, Qun Qun (*with* Guo, Han Ying; Hu, Yao Guang) Gauge anomalies and their cohomological analysis. (Chinese. English summary) **90h:81076**

Dubois-Violette, M. (*with* Madore, J.; Kerner, R.) Gauge bosons in a noncommutative geometry. **90c:81107**

Gaudefroy, Alain Sur les sources antibruit. (English summary) [On antinoise systems] **90c:58196**

Ginzburg, V. L. Closed characteristics of 2-forms. **90f:58059**

Gol′dshteĭn, V. M. (*with* Kuz′minov, V. I.; Shvedov, I. A.) Normal and compact solvability of linear operators. **90k:47002**

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Henneaux, Marc Duality theorems in BRST cohomology. **90k:17042**

– (*with* Waelbroeck, Henri) Coupling of p-forms to backgrounds through BRST techniques. **90k:81209**

Hu, Yao Guang *see* **Du, Qun Qun; et al., 90h:81076**

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Okassa, Eugène Relèvements des structures symplectiques et pseudo-Riemanniennes à des variétés de points proches. [Liftings of symplectic and pseudo-Riemannian structures to manifolds of near points] **90k:53067**

Periwal, Vipul The renormalization flow, spaces of two-dimensional field theories, and Connes' geometry. **90f:81051**

Rummler, Hansklaus Differential forms, Weitzenböck formulae and foliations. **90m:53049**

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Savel′ev, I. V. Polyhedra and algebraic sets. **90h:55035**

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Wene, G. P. The Clifford algebra of an infinite-dimensional space. **90b:15024**

58A12 de Rham theory [see also 14Fxx]

Alvarez López, Jesús A. Duality in the spectral sequence of Riemannian foliations. **90k:58004**

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Stora, Raymond *see* **Ouvry, Stéphane; et al., 90c:58008**

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— Remarks on the relations between nonabelian de Rham theories with respect to G and ΩG. **90i:55014**

Bott, Raoul On induced representations. **90c:22001**

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Gómez, Francisco Differentials of algebras of continuous functions and characteristic classes of finitely generated projective modules. (Spanish) **90a:16028**

Kani, I. (*with* Mansfield, P.) Constructing the Lorentz anomaly out of the Virasoro anomaly. **90c:81191**

Kastler, Daniel Cyclic cocycles from graded KMS functionals. **90e:46068**

— Entire cyclic cohomology of $\mathbf{Z}/2$-graded Banach algebras. **90e:46067**

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Mihuţ, I. Cochain complexes on fibre bundles. (Romanian summary) **90h:58004**

Nakashima, Martin M. Indefinite harmonic forms and gauge theory. **90c:22041**

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Ohsawa, Takeo A generalization of the Weitzenböck formula and an analytic approach to Morse theory. **90k:58003**

Sasin, Wiesław The de Rham cohomology of differential spaces. **90k:58007**

Singer, I. M. Some problems in the quantization of gauge theories and string theories. **90a:58024**

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Tarkhanov, N. N. Cohomology of differential complexes. **90a:58163**

Tondeur, Philippe *see* **Nishikawa, Seiki, 90m:53047**

58A14 Hodge theory [see also 14C30, 14Fxx, 32Cxx]

(Atiyah, Michael) *see* **Hodge, W. V. D., 90g:58001**

Hodge, W. V. D. ★ The theory and applications of harmonic integrals. **90g:58001**

Kamber, Franz W. (*with* Tondeur, Philippe) Foliations and harmonic forms. **90b:58005**

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Fujiki, Akira On the de Rham cohomology group of a compact Kähler symplectic manifold. **90d:53083**

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Nagase, Masayoshi Pure Hodge structure of the harmonic L^2-forms on singular algebraic surfaces. **90h:32027**

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Yamasaki, Maretsugu The equation $\Delta u = qu$ on an infinite network. **90b:39011**

58A15 Exterior differential systems (Cartan theory)

Allard, William K. An improvement of Cartan's test for ordinarity. **90m:58006**

Estabrook, Frank B. (*with* Wahlquist, Hugo D.) Classical geometries defined by exterior differential systems on higher frame bundles. **90b:58006**

Hermann, Robert Geometric and Lie-theoretic principles in pure and applied deformation theory. **90a:58005**

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Wolak, Robert Foliations admitting transverse systems of differential equations. **90b:58007**

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Cenkl, Bohumil The Bianchi theorem in higher dimensions. **90b:53009**

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Cheung, Wing Sum Variational problems and the exterior differential systems. **90f:58046**

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Gao, Pu Yun *see* **Mu, Xiao Wu; et al., (90k:58001)**

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Grissom, Charles (*with* Thompson, Gerard; Wilkens, George) Linearization of second order ordinary differential equations via Cartan's equivalence method. **90b:34058**

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Li, You Quan (*with* Ge, Mo Lin) Prolongation method of finding Bäcklund transformation and Lax-pair of Ernst equation and Ernst-Maxwell equations. **90a:58158**

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Tapia, V. ★ A novel method to solve functional-differential equations. Application to quantum field theory. **90i:81152**

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58A17 Pfaffian systems

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Matsuno, Yoshimasa New type of algebraic solitons expressed in terms of Pfaffians. **90k:35240**

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Bieber, Robert ★ Der Satz von Emmy Noether über invariante Variationsprobleme. (German) [Emmy Noether's theorem on invariant variational problems] **90d:58005**

Bowman, Robert H. Tangent bundles of higher order. **90d:58006**

Doupovec, Miroslav Natural operators transforming vector fields to the second order tanger bundle. (Russian and Czech summaries) **90m:58007**

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Mikulski, W. M. Continuity of liftings. (Russian and Czech summaries) **90b:58009**

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Etayo Gordejuela, Fernando Lifts and isomorphisms of commutation in bundles of jets. **90m:53041**

Fredricks, Gregory A. Higher order differential geometry. **90d:53037**

— (*with* Gilkey, Peter B.; Parker, Phillip E.) A higher order invariant of differential manifolds. **90h:55025**

Gancarzewicz, Jacek (*with* Rahmani, Noureddine) Relèvements horizontaux de tenseurs de type $(1, 1)$ au fibré $E = TM \otimes T^*M$. [Horizontal liftings of tensors of type $(1, 1)$ to th bundle $E = TM \otimes T^*M$] **90b:53036**

— (*with* Salgado, Modesto) Horizontal lifts of tensor fields and connections to the tangent bundle of higher order. **90f:53028**

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drzejczak, Grzegorz Characteristic homomorphism for transversely holomorphic foliations via the Cauchy-Riemann equations. **90c:57019**

ca, Giuseppe Espaces-temps symplectiques admettant un double feuilletage lagrangien transverse. [Symplectic space-times with a transversal Lagrangian double foliation] **90m:53074**

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(*with* Rahmani, Noureddine) Relèvement horizontal des connexions linéaires au fibré vectoriel associé avec le fibré principal des repères linéaires. [Horizontal lifting of linear connections to the vector bundle associated with the principal bundle of linear frames] **90b:53037**

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ihuţ, I. Cochain complexes on fibre bundles. (Romanian summary) **90h:58004**

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bov, Ĭordan B. On the local solvability of hyperbolic overdetermined systems of partial differential equations. **90i:58006**

lczyjew, W. M. Differential geometry of mechanical systems with constraints. **90f:58075**

selov, A. P. (*with* Veselova, L. E.) Integrable nonholonomic systems on Lie groups. **90f:58077**

selova, L. E. *see* **Veselov, A. P., 90f:58077**

lak, Robert Foliations admitting transverse systems of differential equations. **90b:58007**

3A35 Stratified sets [see also 32Bxx, 58Cxx]

oglia, Fabrizio Simple coverings for stratified spaces. (Italian) **90k:58005**

ctor, Gilbert *see* **Saralegi Aranguren, Martin, 90a:58007**

hmann, Daniel Théorème de Gauss-Bonnet pour les variétés stratifiées. (English summary) [The Gauss-Bonnet theorem for stratified manifolds] **90b:58010**

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resky, R. Mark (*with* MacPherson, Robert) ★ Stratified Morse theory. **90d:57039**

Heil, Alions Anton (*with* Kersch, A.; Papadopoulos, N. A.; Reifenhäuser, B.; Scheck, F.; Vogel, Helmut) Anomalies from the point of view of G-theory. **90m:58215**

Kersch, A. *see* **Heil, Alions Anton; et al., 90m:58215**

Kirwan, Frances ★ An introduction to intersection homology theory. **90e:55013**

MacPherson, Robert *see* **Goresky, R. Mark, 90d:57039**

Mormul, Piotr Singularities of triples of vector fields on $\mathbf{R}^4$: the focusing stratum. **90c:58028**

Papadopoulos, N. A. *see* **Heil, Alions Anton; et al., 90m:58215**

Reifenhäuser, B. *see* **Heil, Alions Anton; et al., 90m:58215**

Scheck, F. *see* **Heil, Alions Anton; et al., 90m:58215**

Sedykh, V. D. Stabilization of the singularities of convex hulls. **90a:58014**

Thom, René Sur les bouts d'une feuille d'un feuilletage au voisinage d'un point singulier isolé. (English summary) [On the ends of a leaf of a foliation in the neighborhood of an isolated singular point] **90a:57043**

Vogel, Helmut *see* **Heil, Alions Anton; et al., 90m:58215**

58A40 Differential spaces

Firmanty, Małgorzata Generalized path spaces. I. **90k:58006**

Losik, M. V. The Vagner composite manifold. Connection and curvature forms. (Russian) **90d:58011**

Matuszczyk, Hanna On foliations of differential spaces. **90e:58005**

Sasin, Wiesław (*with* Żekanowski, Zbigniew) Some relations between almost symplectic, pseudo-Riemannian and almost product structures on differential spaces. **90f:58009**

— On locally countably generated differential spaces. **90g:58003**

— The de Rham cohomology of differential spaces. **90k:58007**

Walczak, Bronisława The canonical equivalent of differential modules and vector bundles. (Polish. English summary) **90g:58004**

Waliszewski, Włodzimierz Complex premanifolds and foliations. **90b:58011**

Wróblewski, Jarosław Singular foliations of differential spaces. **90d:58012**

Żekanowski, Zbigniew *see* **Sasin, Wiesław, 90f:58009**

58A50 Supermanifolds and graded manifolds

Bartocci, Claudio (*with* Bruzzo, Ugo) Cohomological methods in supermanifold theory. **90a:58008**

— (*with* Bruzzo, Ugo) Super line bundles. **90m:58009**

— (*with* Bruzzo, Ugo; Landi, Giovanni) Chern-Simons forms on principal superfiber bundles. **90j:58004**

Bruzzo, Ugo Supermanifolds, supermanifold cohomology, and super vector bundles. **90b:58012**

— (*with* Hernández Ruipérez, Daniel) Characteristic classes of super vector bundles. **90c:58013**

— *see also* **Bartocci, Claudio, 90a:58008; 90j:58004** *and* **90m:58009**

Bryant, Peter R. Supermanifolds, supersymmetry and Berezin integration. **90c:58014**

— de Witt supermanifolds and infinite-dimensional ground rings. **90c:58015**

— Global properties of supermanifolds and their bodies. **90m:58010**

Hernández Ruipérez, Daniel *see* **Bruzzo, Ugo, 90c:58013**

Landi, Giovanni *see* **Bartocci, Claudio; et al., 90j:58004**

Manin, Yu. I. Supersymmetry and supergravity in the superspace of null supergeodesics. **90a:58009**

— *see also* **Voronov, A. A.; et al., 90c:58016**

Minakhin, V. V. Berezinians in permutation structures. **90b:58013**

Monterde, J. (*with* Montesinos Amilibia, Angel) Integral curves of derivations. **90f:58010**

Montesinos Amilibia, Angel *see* **Monterde, J., 90f:58010**

Natanzon, S. M. The moduli space of Riemann supersurfaces. **90h:58006**

Penkov, I. B. *see* **Voronov, A. A.; et al., 90c:58016**

Pestoff, V. G. Interpreting superanalyticity in terms of convergent series. **90k:58008**

Rogers, Alice Contour integration on super-Riemann surfaces. **90b:58014**

Sánchez Valenzuela, Oscar Adolfo A geometric approach to the theory of super vector bundles. (Spanish. English summary) **90f:58011**

— Linear supergroup actions. I. On the defining properties. **90a:58010**

Schmitt, Thomas[1] Submersions, foliations, and RC-structures on smooth supermanifolds. **90b:58015**

— ★ Infinite-dimensional supermanifolds. I. **90d:58013**

Shnider, S. (*with* Wells, R. O., Jr.) ★ Supermanifolds, super twistor spaces and super Yang-Mills fields. **90g:58005**

Teofilatto, Paolo Discrete supergroups and super Riemann surfaces. **90a:58011**

Voronov, A. A. (*with* Manin, Yu. I.; Penkov, I. B.) Elements of supergeometry. (Russian) **90c:58016**

Wells, R. O., Jr. *see* **Shnider, S., 90g:58005**

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Batchelor, Marjorie In search of the graded manifold of maps between graded manifolds. **90j:58021**

Baulieu, Laurent (*with* Bellon, M.; Grimm, Richard) Factorization of the BRST algebra on superconformal structures. **90i:81101**

Bellon, M. *see* **Baulieu, Laurent; et al., 90i:81101**

Boyer, C. P. (*with* Sánchez Valenzuela, Oscar Adolfo) Some problems of elementary calculus in superdomains (with a survey on the theory of supermanifolds). **90d:58023**

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Bruzzo, Ugo Global Utiyama's theorem in curved superspace. **90j:58016**

Carr, James L. Spin structures and superworldsheet topology. **90c:81165**

Cristofano, G. (*with* Musto, R.; Nicodemi, F.; Pettorino, R.) Covariant multitadpole operator and bosonization in fermionic strings. **90c:81123**

Gieres, F. ★ Geometry of supersymmetric gauge theories. **90a:81073**

Grimm, Richard *see* **Baulieu, Laurent; et al., 90i:81101**

Grundberg, J. (*with* Nakayama, R.) Superconformal Ward identities and the supertorus. **90b:81127**

Hamada, Ken-Ji (*with* Takao, Masaru) Current algebras on super-Riemann surfaces. **90c:81185**
Kastler, Daniel The Koszul formulae for graded Lie-Cartan pairs (super BRS operator). **90g:17028**
Khudaverdyan, O. M. (*with* Mkrtchyan, R. L.) Integral invariants of the Buttin bracket. **90i:58004**
Kobayashi, Yuji (*with* Nagamachi, S.) Eigenvalues and characteristic functions of supermatrices. (*see* **90e:20002**)
Manin, Yu. I. *see* **Voronov, A. A., 90e:32037**
Martellini, M. (*with* Teofilatto, Paolo) Global structure of the superstring partition function and resolution of the supermoduli measure ambiguity. **90c:81204**
Matsumoto, Shuji (*with* Uehara, S.; Yasui, Yukinori) Hadamard model on the super Riemann surface. **90a:58183**
McHugh, Andrew A Newlander-Nirenberg theorem for supermanifolds. **90c:32013**
Mezincescu, L. (*with* Nepomechie, Rafael I.; Zachos, Cosmas K.) (Super)conformal algebra on the (super)torus. **90e:17029**
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Morozov, A. Yu. The two-loop superstring partition function. **90b:81137**
Musto, R. *see* **Cristofano, G.; et al., 90c:81123**
Myung, Y. S. $N = 2$ twisted supermodular transformation on a supertorus. **90a:32028**
Nagamachi, S. *see* **Kobayashi, Yuji**, (**90e:20002**)
Nakayama, R. *see* **Grundberg, J., 90b:81127**
Natanzon, S. M. The topological type and moduli of Riemannian and Kleinian supersurfaces. (Russian. English summary) **90b:32045**
Nepomechie, Rafael I. *see* **Mezincescu, L.; et al., 90e:17029**
Nicodemi, F. *see* **Cristofano, G.; et al., 90c:81123**
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Rogers, Alice Path integration in superspace. **90a:58023**
Roslyĭ, A. A. (*with* Shvarts, A. S.; Voronov, A. A.) Superconformal geometry and string theory. **90b:58274**
Sánchez Valenzuela, Oscar Adolfo *see* **Boyer, C. P., 90d:58023**
Semikhatov, A. M. Bosonization, τ-functions and operator formalism on Riemann surfaces. **90d:81118**
— Sewing *bc* theories on Riemann surfaces in a bosonic operator formalism. **90d:81119**
Shvarts, A. S. *see* **Roslyĭ, A. A.; et al., 90b:58274**
Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. **90h:16006**
Takao, Masaru *see* **Hamada, Ken-Ji, 90c:81185**
Teofilatto, Paolo *see* **Martellini, M., 90c:81204**
Uehara, S. (*with* Yasui, Yukinori) Super Beltrami differentials via 2D supergravity. **90e:32025**
— *see also* **Matsumoto, Shuji; et al., 90a:58183**
Vaĭntrob, A. Yu. Deformations of complex superspaces and of the coherent sheaves on them. (Russian) **90h:32049**
Voronov, A. A. (*with* Manin, Yu. I.) Supercellular partitions of flag superspaces. (Russian) **90e:32037**
— *see also* **Roslyĭ, A. A.; et al., 90b:58274**
Witten, Edward Free fermions on an algebraic curve. **90j:14042**
Yasui, Yukinori *see* **Matsumoto, Shuji; et al., 90a:58183** *and* **Uehara, S., 90e:32025**
Zachos, Cosmas K. *see* **Mezincescu, L.; et al., 90e:17029**

58A99 None of the above, but in this section

Asada, Akira Monodromy of a differential equation having a quadratic nonlinear term. **90h:58007**
Coleman, Robert Alan (*with* Korte, Herbert) All directing fields that are polynomial in the $(n-1)$ velocity are geodesic. **90b:58016**
Kolář, Ivan On the natural operators on vector fields. **90b:58017**
Korte, Herbert *see* **Coleman, Robert Alan, 90b:58016**

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Aikou, Tadashi On infinitesimal automorphisms of $D(\mathrm{GL}(n, \mathbf{R}))$-structures on tangent bundles. **90g:53038**
Aoki, Toshihiko (*with* Pak, Jin Suk; Yorozu, S.) L^2-vector fields on a noncompact Riemannian manifold with boundary. **90i:53044**
Betounes, David The geometry of gauge-particle field interaction: a generalization of Utiyama's theorem. **90j:53095**
Cariñena, José F. (*with* López Lacasta, Carlos; Martínez, Eduardo) A geometric characterisation of Lagrangian second-order differential equations. **90m:58063**
— (*with* López Lacasta, Carlos; Martínez, Eduardo) A new approach to the converse of Noether's theorem. **90i:58043**
Corach, Gustavo (*with* Porta, Horacio) Total curvature of nondifferentiable curves. **90e:53004**
Drager, Lance D. (*with* Foote, Robert L.; Martin, Clyde Franklin; Wolper, James) Controllability of linear systems, differential geometry curves in Grassmannians and generalized Grassmannians, and Riccati equations. **90j:93037**
Edelen, Dominic G. B. Material and spatial gauge theories of solids. II. Problems with given material dislocation densities. **90i:73010b**
— Material and spatial gauge theories of solids. III. Dynamics of disclination free states. **90i:73010c**
— *see also* **Lagoudas, Dimitris C., 90i:73010a**
Foote, Robert L. *see* **Drager, Lance D.; et al., 90j:93037**
Gago Couso, Felipe ★ Internal weak opens, stability and Morse theory for synthetic germs. (Not in MR)
Khan, I. S. *see* **Petrov, Nikolaĭ Nikolaevich, 90k:58203**
Kock, Anders Generalized fibre bundles. **90c:18009**
— On the integration theorem for Lie groupoids. **90j:20124**
Lagoudas, Dimitris C. (*with* Edelen, Dominic G. B.) Material and spatial gauge theories of solids. I. Gauge constructs, geometry, and kinematics. **90i:73010a**
López Lacasta, Carlos *see* **Cariñena, José F.; et al., 90i:58043** *and* **90m:58063**
Martin, Clyde Franklin *see* **Drager, Lance D.; et al., 90j:93037**
Martínez, Eduardo *see* **Cariñena, José F.; et al., 90i:58043** *and* **90m:58063**
Pak, Jin Suk *see* **Aoki, Toshihiko; et al., 90i:53044**
Petrov, Nikolaĭ Nikolaevich (*with* Khan, I. S.) Limit sets for trajectories of dynamical polysystems. **90k:58203**
Porta, Horacio *see* **Corach, Gustavo, 90e:53004**
Reich, Sebastian Algebrodifferentialgleichungen und Vektorfelder auf Mannigfaltigkeiten [Algebro-differential equations and vector fields on manifolds] **90j:58136**
Rodrigues, João P. (*with* van Tonder, A. J.) Spin structures for Riemann surfaces with boundaries and cross-caps. **90e:53082**
Rudakov, A. N. Lie algebras of vector fields, and differential operators on vector bundles. (Russian) **90b:17027**
Tatarinov, Ya. V. Universal characteristic function and the moving frame method in the dynamics of systems with nonintegrable constraints. (Russian) **90j:70023**
van Tonder, A. J. *see* **Rodrigues, João P., 90e:53082**
Wolper, James *see* **Drager, Lance D.; et al., 90j:93037**
Woronowicz, S. L. Differential calculus on compact matrix pseudogroups (quantum group **90g:58010**
Yorozu, S. *see* **Aoki, Toshihiko; et al., 90i:53044**

58Bxx Infinite-dimensional manifolds

58B05 Homotopy and topological questions

Kusuoka, Shigeo Degree theorem in certain Wiener Riemannian manifolds. **90c:58017**

Items with secondary classifications in 58B05

Bowick, Mark J. The geometry of string theory. **90j:81171**
Church, P. T. (*with* Timourian, J. G.) Critical values of Fredholm maps. **90c:58027**
Deundyak, V. M. Homotopy properties of a space of invertible matrix one-dimensional singular operators with piecewise continuous coefficients. (Russian. English and Georgi summaries) **90m:58209**
Fomenko, V. T. *see* **Kolegaeva, E. M., 90g:53074**
Jaffe, Arthur Heat kernel regularization and infinite-dimensional analysis. **90m:58202**
Kolegaeva, E. M. (*with* Fomenko, V. T.) Continuation of infinitesimal bendings of surfac to analytic bendings under external constraints. **90g:53074**
Kryszewski, W. (*with* Przeradzki, B.; Wereński, S.) Remarks on approximation methods degree theory. **90b:47098**
Porta, Horacio (*with* Recht, Lázaro) Spaces of projections in a Banach algebra. (Spanish summary) **90a:46189**
Przeradzki, B. *see* **Kryszewski, W.; et al., 90b:47098**
Radu, F. Applications et morphismes de fibrés vectoriels avec structures particulières. [Mappings and morphisms of vector bundles with particular structures] **90i:55030**
Recht, Lázaro *see* **Porta, Horacio, 90a:46189**
Sakai, Katsuro (*with* Wong, Raymond Y.) The space of Lipschitz maps from a compactu to a locally convex set. **90j:57013**
— A function space triple of a compact polyhedron into an open set in Euclidean space. **90d:57021**
Taubes, Clifford Henry The stable topology of self-dual moduli spaces. **90f:58023**
Timourian, J. G. *see* **Church, P. T., 90c:58027**
Wereński, S. *see* **Kryszewski, W.; et al., 90b:47098**
Wong, Raymond Y. *see* **Sakai, Katsuro, 90j:57013**

58B10 Differentiability questions

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Ba, Boubakar (*with* Diallo, Mamadou Hassimiou) Caractérisation des fibrés vectoriels d classe C^r. (English summary) [Characterization of C^r-vector bundles] **90d:57032**
Diallo, Mamadou Hassimiou *see* **Ba, Boubakar, 90d:57032**

58B12 Questions of holomorphy [see also 32–XX, 46G20]

Items with secondary classifications in 58B12

Hervé, Michel ★ Analyticity in infinite-dimensional spaces. **90f:46074**
Kuczumow, T. (*with* Ray, William O.) Isometries in the Cartesian product of n unit open Hilbert balls with a hyperbolic metric. **90c:47104**
Ray, William O. *see* **Kuczumow, T., 90c:47104**

58B15 Fredholm structures [see also 47A53]

Connes, Alain Trace de Dixmier, modules de Fredholm et géométrie riemannienne. [Dixmier trace, Fredholm modules and Riemannian geometry] **90d:58014**
Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI-algebras. (Russian) **90c:58018**
Terng, Chuu-Lian Proper Fredholm submanifolds of Hilbert space. **90e:58006**
Vasilescu, F.-H. Homogeneous operators and essential complexes. **90m:58011**

Items with secondary classifications in 58B15

Borisovich, Yu. G. Global analysis and solvability of nonlinear boundary value problems. (Russian) **90m:58022**
Church, P. T. (*with* Timourian, J. G.) Critical values of Fredholm maps. **90c:58027**
Connes, Alain Entire cyclic cohomology of Banach algebras and characters of θ-summab Fredholm modules. **90c:46094**
— (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**
— Compact metric spaces, Fredholm modules, and hyperfiniteness. **90i:46124**
Fox, Jeff (*with* Haskell, Peter) A new proof of the K-amenability of $\mathrm{SU}(1, 1)$. **90a:4618**

askell, Peter *see* **Fox, Jeff, 90a:46180**
ffe, Arthur (*with* Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. **90k:81104**
aroubi, Max *see* **Connes, Alain, 90c:58174**
astler, Daniel Introduction to Alain Connes' noncommutative differential geometry. **90m:58014**
m, Soon Kyu (*with* Wang, Ti Xiang) The generalized Morse lemma and the Euler characteristic on Banach manifolds. **90h:58012**
esniewski, Andrzej *see* **Jaffe, Arthur, 90k:81104**
orimoto, Hiroshi A theory of infinite-dimensional cycles for Dirac operators. **90j:58142**
alais, Richard S. (*with* Terng, Chuu-Lian) ★ Critical point theory and submanifold geometry. **90c:53143**
almer, John Pfaffian bundles and the Ising model. **90b:82071**
haripov, F. *see* **Zhuraev, Yu. Ĭ., 90g:58129**
erng, Chuu-Lian *see* **Palais, Richard S., 90c:53143**
homsen, Klaus ★ Hilbert C^*-modules, KK-theory and C^*-extensions. **90e:46070**
mourian, J. G. *see* **Church, P. T., 90c:58027**
ang, Ti Xiang *see* **Kim, Soon Kyu, 90h:58012**
hang, Haitao Fredholm theory for morphisms in quotient Banach spaces. **90g:47021**
huraev, Yu. Ĭ. (*with* Sharipov, F.) On the index of a Fredholm operator in a Hilbert C-module. (Russian) **90g:58129**

8B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

ruceanu, V. Courbes remarquables sur les variétés riemanniennes, modélees par un espace de Hilbert. [Remarkable curves on Riemannian manifolds modelled by a Hilbert space] **90k:58009**
rmakov, Yu. I. The Killing equation for a Riemannian-Hilbert manifold. (Russian) **90c:58019**
rimiuc, Dragoş Infinite-dimensional Lagrange spaces. **90k:58010**
The generalized Legendre transformation. **90k:58011**
ekonen, Osmo ★ Contributions to and a survey on moduli spaces of differential geometric structures with applications in physics. **90f:58012**
On the Kähler geometry of the Hilbert-Schmidt Grassmannian. **90d:58015**
chmidke, William B. (*with* Vokos, Stamatis P.) Geometric structures of super-$(\mathrm{Diff}(S^1)/S^1)$. **90c:58020**
okos, Stamatis P. *see* **Schmidke, William B., 90c:58020**

ems with secondary classifications in 58B20

rai, Asao Path integral representation of the index of Kähler-Dirac operators on an infinite-dimensional manifold. **90e:58146**
rakelyan, T. A. (*with* Savvidi, G. K.) Geometry of a group of area-preserving diffeomorphisms. **90g:58011**
ismut, Jean-Michel Filtering equation, equivariant cohomology and the Chern character. **90c:58172**
eville, Robert Geometrical implications of the existence of very smooth bump functions in Banach spaces. **90m:46023**
river, Bruce K. Classifications of bundle connection pairs by parallel translation and lassos. **90b:58033**
ravesen, Jens Complex structures in the Nash-Moser category. **90k:32070**
roisser, D. (*with* Parker, Thomas H.) The geometry of the Yang-Mills moduli space for definite manifolds. **90f:58021**
The geometry of the moduli space of CP^2 instantons. **90m:58023**
nuş, Stere On differential geometry of the dual of a vector bundle. **90j:53047**
ffe, Arthur (*with* Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K-theory. I. The Chern character. **90a:58170**
esniewski, Andrzej *see* **Jaffe, Arthur; et al., 90a:58170**
, Miao Holomorphic structure of closed strings: left-moving sector. **90a:58020**
sterwalder, Konrad *see* **Jaffe, Arthur; et al., 90a:58170**
arker, Thomas H. *see* **Groisser, D., 90f:58021**
avvidi, G. K. *see* **Arakelyan, T. A., 90g:58011**
evrin, A. (*with* Troost, W.; Van Proeyen, A.; Spindel, Ph.) Extended supersymmetric σ-models on group manifolds. II. Current algebras. **90f:81044**
pindel, Ph. *see* **Sevrin, A.; et al., 90f:81044**
roost, W. *see* **Sevrin, A.; et al., 90f:81044**
an Proeyen, A. *see* **Sevrin, A.; et al., 90f:81044**
ang, Ti Xiang Accretive operators and differential inclusion in Banach manifolds. **90k:58030**

8B25 Group structures and generalizations on infinite-dimensional manifolds [see also 22E65, 58D05]

bbati, M. C. (*with* Cirelli, R.; Manià, A.; Michor, Peter W.) The Lie group of automorphisms of a principal bundle. **90m:58012**
bramov, Viktor Anatol′evich Generalized BRST supersymmetries. (Russian. English summary) **90d:58016**
nderson, Mitch Strongly differentiable monoids with smooth boundary. **90j:58005**
irelli, R. *see* **Abbati, M. C.; et al., 90m:58012**
oquereaux, R. (*with* Pilch, K.) String structures on loop bundles. **90k:58012**
husnetdinova, N. S. Homomorphisms of infinite-dimensional Lie groups. (Russian) (*see* 90m:00040)
anià, A. *see* **Abbati, M. C.; et al., 90m:58012**
ichor, Peter W. *see* **Abbati, M. C.; et al., 90m:58012**
ickelsson, J. Commutator anomalies and the Fock bundle. **90m:58013**
lch, K. *see* **Coquereaux, R., 90k:58012**

ems with secondary classifications in 58B25

ada, Akira Remarks on the relations between nonabelian de Rham theories with respect to G and ΩG. **90i:55014**

Atkin, C. J. The Finsler geometry of certain covering groups of operator groups. **90f:22023**
Brągiel, Kazimierz The twisted SU(3) group. Irreducible $*$-representations of the C^*-algebra $C(\mathrm{S}_\mu\mathrm{U}(3))$. **90c:22020**
Budzyński, Robert J. (*with* Klimek, Sławomir; Sadowski, Paweł) The group of local biholomorphisms of $\mathbf{C}^1$ and conformal field theory in the operator formalism. **90d:32048**
Carey, A. L. (*with* Palmer, John) Infinite complex spin groups. **90e:22032**
Duncan, T. E. Brownian motion and affine Lie algebras. **90f:17026**
Holmes, J. P. One parameter subsemigroups in locally compact differentiable semigroups. **90f:22002**
Klimek, Sławomir *see* **Budzyński, Robert J.; et al., 90d:32048**
Lafferty, John D. The density manifold and configuration space quantization. **90g:58042**
McArthur, I. N. A homogeneous superspace relevant to superconformal field theory. **90b:81135**
Mokhov, O. I. Canonical variables for two-dimensional vortical hydrodynamics of an incompressible fluid. **90d:76022**
Ol′shanskiĭ, G. I. The method of holomorphic extensions in the theory of unitary representations of infinite-dimensional classical groups. **90f:22025**
Palmer, John A Grassmann calculus for infinite spin groups. **90m:82003**
— Pfaffian bundles and the Ising model. **90b:82071**
— *see also* **Carey, A. L., 90e:22032**
Sadowski, Paweł *see* **Budzyński, Robert J.; et al., 90d:32048**
Woronowicz, S. L. Tannaka-Kreĭn duality for compact matrix pseudogroups. Twisted SU(N) groups. **90e:22033**
— Differential calculus on compact matrix pseudogroups (quantum groups). **90g:58010**

58B99 None of the above, but in this section

Kastler, Daniel Introduction to Alain Connes' noncommutative differential geometry. **90m:58014**

Items with secondary classifications in 58B99

Abbasov, A. G. Quasiruled homology and the degree of a quasiruled mapping. (Russian. English and Azerbaijani summaries) **90a:55010**
Amari, Shun-ichi Dual connections on the Hilbert bundles of statistical models. **90i:62041**
Andruchow, Esteban (*with* Stojanoff, Demetrio) Differentiable structure of similarity orbits. **90k:47040**
Bogachev, V. I. (*with* Prostov, Yu. I.) Polynomial diffeomorphism of a ball without invariant measures. (Russian) **90k:58110**
Bona, J. L. *see* **Santos, Manuel S., 90k:90032**
Borisovich, Yu. G. A modern approach to the theory of topological characteristics of nonlinear operators. II. (Russian) **90j:58013**
Busenberg, Stavros *see* **Martelli, Mario, 90k:52025**
Caraman, Petru Quasiconformal mappings between infinite-dimensional manifolds in normed spaces. (Polish summary) **90c:30033**
Fomenko, V. T. *see* **Kolegaeva, E. M., 90g:53074**
Gawędzki, Krzysztof Topological actions in two-dimensional quantum field theories. **90i:81122**
Grin′, A. N. On an expansion of a strongly degenerate mapping. (Russian) **90j:58020**
Heil, Alions Anton (*with* Kersch, A.; Papadopoulos, N. A.; Reifenhäuser, B.; Scheck, F.; Vogel, Helmut) Anomalies from the point of view of G-theory. **90m:58215**
Kersch, A. *see* **Heil, Alions Anton; et al., 90m:58215**
Kolegaeva, E. M. (*with* Fomenko, V. T.) Continuation of infinitesimal bendings of surfaces to analytic bendings under external constraints. **90g:53074**
Martelli, Mario (*with* Busenberg, Stavros) Periods of Lipschitz functions and lengths of closed curves. **90k:52025**
Mickelsson, J. ★ Current algebras and groups. **90m:22044**
Niemi, Antti J. Quantum holonomy. **90k:81077**
Papadopoulos, N. A. *see* **Heil, Alions Anton; et al., 90m:58215**
Prostov, Yu. I. *see* **Bogachev, V. I., 90k:58110**
Reifenhäuser, B. *see* **Heil, Alions Anton; et al., 90m:58215**
Rubin, Matatyahu On the reconstruction of topological spaces from their groups of homeomorphisms. **90g:54044**
Sakai, Katsuro (*with* Wong, Raymond Y.) On infinite-dimensional manifold triples. **90g:57017**
Santos, Manuel S. (*with* Bona, J. L.) On the structure of the equilibrium price set of overlapping-generations economies. **90k:90032**
Scheck, F. *see* **Heil, Alions Anton; et al., 90m:58215**
Semenoff, Gordon W. Quantum adiabatic phases, effective actions and anomalies. **90m:81035**
Stojanoff, Demetrio *see* **Andruchow, Esteban, 90k:47040**
Turaev, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. **90m:57021**
Vogel, Helmut *see* **Heil, Alions Anton; et al., 90m:58215**
Wong, Raymond Y. *see* **Sakai, Katsuro, 90g:57017**

58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

Items with secondary classifications in 58Cxx

Balint, Şt. ★ Analiza pe varietăți. (Romanian) [Analysis on manifolds] **90m:58001**

58C05 Real-valued functions

Ramanakoraisina, Rodolphe Bezout theorem for Nash functions. **90j:58006**

Items with secondary classifications in 58C05

Adelman, Murray (*with* Kock, Anders) A note on closed ideals in rings of smooth functions. **90d:46100**

Geisler, Michael H. G. Morrey-Campanato spaces on manifolds. **90a:46073**
Gokhman, A. O. Smooth symmetric functions. **90h:26017**
Kock, Anders *see* **Adelman, Murray, 90d:46100**
Marini, Antonella On the extension of a Yang-Mills field, from the exterior of a ball in $\mathbf{R}^3$ to its compactification. (Italian summary) **90e:58025**
Ramanakoraisina, Rodolphe Complexité des fonctions de Nash. (English summary) [Complexity of Nash functions] **90e:32008**
Verona, Maria Elena On the differentiability of convex functions. **90j:58008**

58C06 Set valued and function-space valued mappings

Georgiev, Peter Georgiev Submonotone mappings in Banach spaces and differentiability of nonconvex functions. **90k:58013**

Items with secondary classifications in 58C06

Berens, H. (*with* Finzel, M.) A continuous selection of the metric projection in matrix spaces. **90i:41040**
Bezhaev, A. Yu. Splines on manifolds. **90b:65013**
Bogachev, V. I. (*with* Prostov, Yu. I.) Polynomial diffeomorphism of a ball without invariant measures. (Russian) **90k:58110**
Deutsch, Frank An exposition of recent results on continuous metric selections. **90i:41043**
Finzel, M. *see* **Berens, H., 90i:41040**
Frankowska, Halina High order inverse function theorems. **90k:58015**
Hess, Christian Measurability and integrability of the weak upper limit of a sequence of multifunctions. **90h:90186**
Klimov, V. S. On the problem of periodic solutions of operator differential inclusions. **90h:47109**
Lee, Sung J. (*with* Nashed, M. Z.) Differential inclusions, linear selections, and an optimal control problem. **90g:49028**
Nashed, M. Z. *see* **Lee, Sung J., 90g:49028**
Prostov, Yu. I. *see* **Bogachev, V. I., 90k:58110**
Zajtz, Andrzej On the order of natural differential operators and liftings. **90c:58012**

58C07 Continuity properties of mappings

Items with secondary classifications in 58C07

Zajtz, Andrzej On the order of natural differential operators and liftings. **90c:58012**

58C10 Holomorphic maps [see also 32–XX]

Items with secondary classifications in 58C10

Ball, Joseph A. (*with* Foiaş, Ciprian; Helton, J. W.; Tannenbaum, Allen) A Poincaré-Dulac approach to a nonlinear Beurling-Lax-Halmos theorem. **90h:47112**
Flexor, Marguerite (*with* Sentenac, Pierrette) Algorithmes de Newton généralisés. (English summary) [Generalized Newton algorithms] **90d:30076**
Foiaş, Ciprian *see* **Ball, Joseph A.; et al., 90h:47112**
Heins, Maurice A theorem of Wolff-Denjoy type. **90d:30077**
Helton, J. W. *see* **Ball, Joseph A.; et al., 90h:47112**
Sentenac, Pierrette *see* **Flexor, Marguerite, 90d:30076**
Shub, Michael On the distance to the zero set of a homogeneous polynomial. **90k:12004**
Tannenbaum, Allen *see* **Ball, Joseph A.; et al., 90h:47112**
Włodarczyk, Kazimierz The angular derivative of Fréchet-holomorphic maps in J^*-algebras and complex Hilbert spaces. **90e:46066**

58C15 Implicit function theorems; global Newton methods

Cristea, Mihai Inverse function theorem without assuming continuous differentiability. **90c:58021**
— Local inversion theorems without assuming continuous differentiability. **90k:58014**
Frankowska, Halina High order inverse function theorems. **90k:58015**
Jepson, A. D. (*with* Spence, A.) On a reduction process for nonlinear equations. **90b:58018**
Kassay, G. (*with* Kolumbán, Iosif) Implicit function theorems for monotone mappings. **90c:58022**
Kolumbán, Iosif *see* **Kassay, G., 90c:58022**
Langenbach, A. Über lipschitzstetige implizite Funktionen. (English and Russian summaries) [On Lipschitz-continuous implicit functions] **90j:58007**
McGehee, Richard A note on the Moser-Hald variation of Newton's method. **90m:58015**
Rădulescu, Marius *see* **Rădulescu, S., 90d:58017**
Rădulescu, S. (*with* Rădulescu, Marius) Global univalence and global inversion theorems in Banach spaces. **90d:58017**
Sadyrkhanov, R. S. Local and global implicit function theorems for equations with singularities. **90i:58008**
Spence, A. *see* **Jepson, A. D., 90b:58018**

Items with secondary classifications in 58C15

Babadzhanyan, A. A. Some applications of "constructivity" in the fixed-point theorem. (Russian. Armenian summary) **90m:65121**
Bank, Randolph E. (*with* Mittelmann, H. D.) Stepsize selection in continuation procedures and damped Newton's method. **90i:65093**
Bartīsh, M. Ya. (*with* Shakhno, S. M.) The Newton method with accelerated convergence. (Russian) **90f:65086**
Cromme, L. J. Manifolds with cusps. **90k:58002**
Dancs, Stephan Iterative processes and open mapping theorems. **90i:54033**
Findley, David F. Semireflexive spaces in which the theorem on the derivative-of-the-inverse fails for Fréchet derivatives. **90j:46005**
Franchi, Bruno (*with* Serapioni, R.) Pointwise estimates for a class of strongly degenerate elliptic operators: a geometrical approach. **90e:35076**
Gourdin, Daniel Problèmes de Cauchy hyperboliques nonlinéaires. (English summary) [Nonlinear hyperbolic Cauchy problems] **90e:35111**
— Une classe d'opérateurs faiblement hyperboliques non linéaires. (English summary) [A class of weakly hyperbolic nonlinear operators] **90e:35112**
Husain, Taqdir *see* **Tarafdar, E., 90a:35154**
Jongen, H. T. (*with* Jonker, P.; Twilt, F.) The continuous, desingularized Newton method for meromorphic functions. **90b:58232**
Jonkèr, P. *see* **Jongen, H. T.; et al., 90b:58232**
Korman, Philip On existence of solutions for two classes of nonlinear problems. **90d:35020**
Li, Zhi Ping Periodic solutions of singularly perturbed parabolic equations. (Chinese) **90b:35020**
Liu, Kun Kun *see* **You, Zhao Yong, 90g:65081**
McLeod, J. B. (*with* Peletier, L. A.) Observations on Moser's inequality. **90d:26029**
Mittelmann, H. D. *see* **Bank, Randolph E., 90i:65093**
Moret, Igor A Kantorovich-type theorem for inexact Newton methods. **90h:65109**
Nguen Dyk Fien *see* **Zabreĭko, P. P., 90m:65113**
O'Regan, D. A note on the application of topological transversality to nonlinear differentia equations in Hilbert spaces. **90e:34116**
Peletier, L. A. *see* **McLeod, J. B., 90d:26029**
Pták, Vlastimil Iterative processes, functional inequations and the Newton method. **90j:65081**
Serapioni, R. *see* **Franchi, Bruno, 90e:35076**
Shakhno, S. M. *see* **Bartīsh, M. Ya., 90f:65086**
Shibata, Yoshihiro On a local existence theorem of Neumann problem for some quasi-linea hyperbolic equations. **90f:35137**
Száz, Á. An application of an implicit function theorem to a partial differential equation. **90i:35276**
Tarafdar, E. (*with* Husain, Taqdir) An implicit function theorem for a set of mappings and its application to nonlinear hyperbolic boundary value problems at resonance. **90a:35154**
Torgashova, N. È. Modification of Kakutani's theorem and its application. **90k:54061**
Twilt, F. *see* **Jongen, H. T.; et al., 90b:58232**
Webster, Sidney On the proof of Kuranishi's embedding theorem. (French summary) **90h:32042b**
Yamamoto, Tetsuro Uniqueness of the solution in a Kantorovich-type theorem of Häussler for the Gauss-Newton method. **90b:65097**
You, Zhao Yong (*with* Liu, Kun Kun) An iterative solution procedure for equations involving monotonic Lipschitz mappings on unbounded sets. (Chinese. English summary **90g:65081**
Zabreĭko, P. P. (*with* Nguen Dyk Fien) Pták's estimates in the Newton-Kantorovich method for operator equations. (Russian. English summary) **90m:65113**
Zuily, C. Existence locale de solutions C^∞ pour l'équation de Monge-Ampère. (English summary) [Local existence of C^∞ solutions for the Monge-Ampère equation] **90e:35078**

58C20 Differentiation theory (Gâteaux, Fréchet, etc.) [see also 26Exx, 46Gxx]

Bogachev, V. I. (*with* Shkarin, S. A.) Differentiable and Lipschitz mappings of Banach spaces. **90b:58019**
Efimova, E. I. Sard's theorem on a Banach space. **90b:58020**
Kutateladze, S. S. A remark on the limits of tangents. (Russian) **90c:58023**
— Some ways of defining Clarke's cone. **90b:58021**
Lobanov, S. G. The chain rule and its converse for mappings of locally convex spaces. **90d:58018**
Madgerova, Andreana S. On the converse Taylor's theorem in linear topological spaces. **90h:58008**
Mirică, Ion *see* **Mirică, Ştefan, 90i:58009**
Mirică, Ştefan (*with* Mirică, Ion) Geometric properties of classical derivatives leading to generalized derivatives. **90i:58009**
Nel, Louis Daniel[1] Categorical differential calculus for infinite-dimensional spaces. (French summary) **90k:58016**
Pallaschke, D. (*with* Recht, P.) On extensions of the second-order derivative. **90k:58017**
Rădulescu, Marius *see* **Rădulescu, S., 90e:58007**
Rădulescu, S. (*with* Rădulescu, Marius) Local inversion theorems without assuming continuous differentiability. **90e:58007**
Recht, P. *see* **Pallaschke, D., 90k:58017**
Shi, Shu Zhong Choquet theorem and nonsmooth analysis. **90e:58008**
Shkarin, S. A. *see* **Bogachev, V. I., 90b:58019**
Treiman, Jay S. Shrinking generalized gradients. **90g:58006**
Verona, Maria Elena On the differentiability of convex functions. **90j:58008**
Ward, Doug Which subgradients have sum formulas? **90c:58024**

Items with secondary classifications in 58C20

Almeida, P. A direct approach to one variable noncommutative calculus. **90e:22009**
Aubin, Jean-Pierre (*with* Wets, Roger J.-B.) Stable approximations of set-valued maps. (French summary) **90d:47065**
Balabanov, V. A. ★ Некоторые вопросы нелинейного функционального анализа и их применения. (Russian) [Some problems in nonlinear functional analysis and their applications] **90b:47096**
de Barra, G. (*with* Fitzpatrick, Simon; Giles, John) On generic differentiability of locally Lipschitz functions on Banach space. **90i:46084**
Benkert, F. On the number of stable local minima of some functionals. (German and Russian summaries) **90e:90144**
Borwein, J. M. (*with* Zhuang, D. M.) Verifiable necessary and sufficient conditions for openness and regularity of set-valued and single-valued maps. **90h:90185**
Clarke, F. H. ★ Optimization and nonsmooth analysis. **90g:49011**
Correa, Rafael (*with* Jofré, A.) Tangentially continuous directional derivatives in nonsmooth analysis. **90h:49009**
Cromme, L. J. Manifolds with cusps. **90k:58002**
Dayal, Saheb (*with* Marwaha, Archana) Bounded and Fréchet differentials for mappings linear topological spaces using pseudonorm topology. **90m:46075**
Dem′yanov, V. F. Codifferentiable functions. **90d:26023**

l Abdouni, B. (*with* Thibault, L.) Quasi-interiorly e-tangent cones to multifunctions. **90i:90117**
an, Xian Ling *see* **Zhang, Hua Xiao, 90e:47057**
itzpatrick, Simon *see* **de Barra, G.; et al., 90i:46084**
lytzanis, Elias (*with* Papageorgiou, Nikolaos S.) Existence of monotone and slow solutions for differential inclusions. **90j:34024**
rankowska, Halina High order inverse function theorems. **90k:58015**
rölicher, Alfred (*with* Kriegl, Andreas) ★ Linear spaces and differentiation theory. **90h:46076**
eorgiev, Peter Georgiev Submonotone mappings in Banach spaces and differentiability of nonconvex functions. **90k:58013**
iles, John *see* **de Barra, G.; et al., 90i:46084**
iriart-Urruty, Jean-Baptiste (*with* Seeger, Alberto) Calculus rules on a new set-valued second order derivative for convex functions. **90e:26024**
— (*with* Seeger, Alberto) The second-order subdifferential and the Dupin indicatrices of a nondifferentiable convex function. **90c:26041**
offe, Alexandre D. Approximate subdifferentials and applications. III. The metric theory. **90g:49012**
ofré, A. (*with* Thibault, L.) D-representation of subdifferentials of directionally Lipschitz functions. **90m:90302**
— *see also* **Correa, Rafael, 90h:49009**
ato, Nobuyuki On the second derivatives of convex functions on Hilbert spaces. **90b:47097**
awasaki, Hidefumi The upper and lower second order directional derivatives of a sup-type function. **90a:90171**
riegl, Andreas *see* **Frölicher, Alfred, 90h:46076**
usraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **90c:46003**
utateladze, S. S. *see* **Kusraev, A. G., 90c:46003**
ędzewicz-Kowalewska, Urszula A necessary condition for the extremal problems under Gateaux differentiability. **90b:49024**
arwaha, Archana *see* **Dayal, Saheb, 90m:46075**
intchenko, L. (*with* Rahali, N.) Méthode de l'analyse convexe dans l'estimation des sous-différentielles des fonctions de minimum. (English summary) [A method of convex analysis for estimating the subdifferentials of minimum functions] **90c:49026**
émeth, A. B. Subdifferentiability of convex operators ranging in latticially ordered Banach spaces. **90c:46054**
ikol'skiĭ, M. S. The contingent directional derivative in nonsmooth analysis. **90e:49019**
apageorgiou, Nikolaos S. *see* **Flytzanis, Elias, 90j:34024**
hạm Hũ'u Sách Differentiability of set-valued maps in Banach spaces. **90c:49027**
recup, Radu Quasiconvexity, generalized subdifferential and pseudomonotone mappings. **90e:47069**
— Maximal pseudomonotonicity of generalized subdifferentials of explicitly quasiconvex functions. **90a:90215**
ahali, N. *see* **Mintchenko, L., 90c:49026**
empała, Jan A. A semi-global Taylor formula for manifolds. **90a:58171**
ockafellar, R. T. First- and second-order epi-differentiability in nonlinear programming. **90a:90216**
eeger, Alberto *see* **Hiriart-Urruty, Jean-Baptiste, 90c:26041** *and* **90e:26024**
inger, Ivan Abstract subdifferentials and some characterizations of optimal solutions. **90c:90240**
hibault, L. *see* **El Abdouni, B., 90i:90117** *and* **Jofré, A., 90m:90302**
ets, Roger J.-B. *see* **Aubin, Jean-Pierre, 90d:47065**
hang, Hua Xiao (*with* Fan, Xian Ling) Some results on generalized degree for generalized gradient mappings. I. (Chinese. English summary) **90e:47057**
hao, Zeng Qin Some properties of m-positive homogeneous operators. (Chinese. English summary) **90j:47090**
huang, D. M. *see* **Borwein, J. M., 90h:90185**

8C25 Differentiable maps

elitskiĭ, G. R. Obstructions to finite-smooth linearization. **90f:58013**
roglia, Fabrizio (*with* Tognoli, A.) Approximation des fonctions C^∞ et points de platitude. (English summary) [Approximation of nonflat C^∞ functions] **90i:58010**
runo, Oscar P. Three problems concerning ideals of differentiable functions. **90c:58025**
unge, Marta (*with* Gago Couso, Felipe) Synthetic aspects of C^∞-mappings. II. Mather's theorem for infinitesimally represented germs. **90b:58022**
ago Couso, Felipe *see* **Bunge, Marta, 90b:58022**
ostov, V. P. On the geometric properties of Vandermonde's mapping and on the problem of moments. **90h:58009**
alheiros, Euclides Braga *see* **Sanches, Adhemar, 90i:58012**
andhyan, Indur Examples of global normal forms for some simple nonlinear integral operators. **90i:58011**
anches, Adhemar (*with* Malheiros, Euclides Braga) Determining the absolute maximum point of a quadratic polynomial function of three variables in the region $A \subset \mathbf{R}^n$ when the function has a saddle point. (Portuguese. English summary) **90i:58012**
ognoli, A. *see* **Broglia, Fabrizio, 90i:58010**

tems with secondary classifications in 58C25

delman, Murray (*with* Kock, Anders) A note on closed ideals in rings of smooth functions. **90d:46100**
grachëv, A. A. The topology of quadratic mappings and Hessians of smooth mappings. (Russian) **90b:58032**
memiya, Ichiro (*with* Masuda, Kazuo) On Joris' theorem on differentiability of functions. **90a:26005**
ernát, Slezák A mean value theorem in metric spaces. **90g:54006**
ogachev, V. I. (*with* Shkarin, S. A.) Differentiable and Lipschitz mappings of Banach spaces. **90b:58019**
onet, José (*with* Meise, Reinhold; Taylor, B. A.) Whitney's extension theorem for ultradifferentiable functions of Roumieu type. **90m:46035**
Borzi, C. *see* **Frisch, H. L.; et al., 90f:26014**
Broglia, Fabrizio (*with* Tognoli, A.) Approximation of C^∞-functions without changing their zero-set. (French summary) **90k:32023**
Bronza, S. D. (*with* Tairova, V. G.) The existence of algebraic functions with given branching that satisfy an additional condition. (Russian) **90j:30070**
Coghlan, Leslie Tight stable surfaces. II. **90k:57037**
— Some general constructions of tight mappings. **90k:57038**
Cromme, L. J. Manifolds with cusps. **90k:58002**
Deville, Robert Geometrical implications of the existence of very smooth bump functions in Banach spaces. **90m:46023**
Dufour, Jean-Paul Existence de cycles pour des multi-applications du cercle. (English summary) [Existence of cycles for multivalued mappings of the circle] **90b:58237**
Frisch, H. L. (*with* Borzi, C.; Ord, G.; Percus, J. K.; Williams, G. O.) Approximate representation of functions of several variables in terms of functions of one variable. **90f:26014**
Gago Couso, Felipe Morse germs in S.D.G. **90a:58002**
— ★ Internal weak opens, stability and Morse theory for synthetic germs. (Not in MR)
Jaramillo, J. A. An example on composite differentiable functions in infinite dimensions. **90m:46042**
Kifer, Yuri (*with* Yomdin, Y.) Volume growth and topological entropy for random transformations. **90g:58067**
Kock, Anders *see* **Adelman, Murray, 90d:46100**
Konyagin, S. V. (*with* Tsar'kov, I. G.) Smoothing of mappings in normed spaces. **90a:46031**
Marcus, Solomon Symmetry in the simplest case: the real line. **90e:26021**
Masuda, Kazuo *see* **Amemiya, Ichiro, 90a:26005**
Meise, Reinhold *see* **Bonet, José; et al., 90m:46035**
Müller, Stefan A surprising higher integrability property of mappings with positive determinant. **90c:49022**
Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. **90k:58022**
— On the topological structure of smooth equivariant mappings. II. Topological instability and nonstabilization theorems. **90k:58023**
Newhouse, Sheldon E. Entropy and volume. **90g:58068**
Ord, G. *see* **Frisch, H. L.; et al., 90f:26014**
Percus, J. K. *see* **Frisch, H. L.; et al., 90f:26014**
Shkarin, S. A. *see* **Bogachev, V. I., 90b:58019**
Tairova, V. G. *see* **Bronza, S. D., 90j:30070**
Ţarină, M. Lie groups and the modeling of the technical progress. **90b:90020**
Taylor, B. A. *see* **Bonet, José; et al., 90m:46035**
Tognoli, A. *see* **Broglia, Fabrizio, 90k:32023**
Trokhimchuk, Yu. Yu. Differentiable mappings with singularities. (Russian) **90a:26009**
Tsar'kov, I. G. *see* **Konyagin, S. V., 90a:46031**
Vodop'yanov, S. K. Intrinsic geometries and boundary values of differentiable functions. I. **90j:46039**
Wilkie, Alex J. On the theory of the real exponential field. **90i:03042**
Williams, G. O. *see* **Frisch, H. L.; et al., 90f:26014**
Yomdin, Y. *see* **Kifer, Yuri, 90g:58067**
Zajtz, Andrzej Geometric objects with finitely determined germs. **90d:58008**
Zvyagin, V. G. Properness of elliptic and parabolic differential operators. (Russian) **90k:58224**

58C27 Singularities of differentiable maps [see also 14B05, 14E15, 32Bxx, 32C40, 32C45]

Aoki, Kenji *see* **Nishimura, Takashi; et al., 90k:58024**
Arnol'd, V. I. Spaces of functions with moderate singularities. (Russian) **90m:58016**
Bamón, R. *see* **Urbina, A. M.; et al., 90f:58017**
Belitskiĭ, G. R. Finite determinacy of the germs of C^∞-diffeomorphisms. (Russian) **90c:58026**
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— (*with* Timoshenko, È. G.) Gravitational singularities of caustic type. (Russian) **90c:83057**
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58C30 Fixed point theorems [see also 47H10]

Allgower, E. L. (*with* Chien, Cheng Sheng) Bifurcations arising from complexifications of real homotopies. **90b:58027**
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Boult, T. (*with* Sikorski, K.) An optimal complexity algorithm for computing the topological degree in two dimensions. **90h:65084**
Deundyak, V. M. (*with* Simonenko, I. B.; Trinh Ngoc Minh) Symbols and a homotopy classification of families of one-dimensional singular operators with piecewise-continuous coefficients. **90e:47042**
Dos Santos, Josenildo An equivariant GMM-theory via the P-ideal valued cohomological index. **90m:58029**
Du, Yi Hong Multiple-fixed points of increasing operators. (Chinese. English summary) **90g:47098**
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Fan, Xian Ling A topological degree for multivalued generalized admissible mappings. (Chinese. English summary) **90j:55003**
Górniewicz, Lech (*with* Granas, A.; Kryszewski, W.) Sur la méthode de l'homotopie dans la théorie des points fixes pour les applications multivoques. II. L'indice dans les ANR-s compacts. (English summary) [On the homotopy method in the fixed-point theory for set-valued maps. II. The index in compact ANRs] **90j:55004**
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Li, Lige On positive solutions of a nonlinear equilibrium boundary value problem. **90i:35141**
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— (*with* Sauer, Tim; Yorke, James A.) The cheater's homotopy: an efficient procedure for solving systems of polynomial equations. **90m:65105**
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Yakoubsohn, Jean-Claude Sur un procédé de construction d'algorithmes de calcul approch des racines d'une équation du type $f(x) = 0$. (English summary) [Constructing algorithm to compute the roots of an equation of type $f(x) = 0$] **90d:65099**
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58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

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Getzler, Ezra Dirichlet forms on loop space. **90g:58146**
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— Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus

and generalized functional integral] **90m:46124**
Park, Chull (*with* Skoug, David) A simple formula for conditional Wiener integrals with applications. **90c:28022**
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Trenčevski, Kostadin Covariant multiple integrals of tensors and a generalization of Stokes' theorem. **90i:58003**
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Tertikas, Achilles Global bifurcation analysis and uniqueness for a semilinear problem. **90j:58015**

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Benci, Vieri (*with* Fortunato, Donato) A remark on the nodal regions of the solutions of some superlinear elliptic equations. **90c:35074**
Böhmer, K. (*with* Mei, Zhen) Regularization and computation of a bifurcation problem with corank 2. (German summary) **90c:65082**
Braden, H. W. Anomalous congruences. **90a:57039**
Budd, Chris Symmetry breaking and semilinear elliptic equations. **90m:65209**
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Capozzi, A. (*with* Lupo, D.; Solimini, Sergio) On the existence of a nontrivial solution to nonlinear problems at resonance. **90c:35086**
Cheng, Qing Ming Eigenvalues and eigenfunctions of the Laplacian on a Riemannian manifold. (Chinese. English summary) **90b:58265**
Chiappinelli, R. Remarks on Krasnosel′skiĭ bifurcation theorem. **90j:58026**
— On spectral asymptotics and bifurcation for elliptic operators with odd superlinear term. **90e:35124**
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Coffman, C. V. Nonlinear elliptic boundary value problems: Lyusternik-Schnirelman theory, nodal properties and Morse index. **90i:35103**
Constantin, P. (*with* Foiaş, Ciprian; Nicolaenko, Basil; Temam, R.) Spectral barriers and inertial manifolds for dissipative partial differential equations. **90i:35234**
Davies, Brian (*with* Gutkin, E.) Intertwining operators and the quantum inverse method for the nonlinear Schrödinger equation. **90c:81168**
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Karpushkin, V. N. Topology of zeros of eigenfunctions. (Russian) **90k:58238**
Li, Yan Yan Degree theory for second order nonlinear elliptic operators and its applications. **90i:58022**
Lin, Wen Wei (*with* Lutzer, Gerhard) An application of the homotopy method to the generalised symmetric eigenvalue problem. **90a:65086**
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Machinek, A. K. (*with* Troger, H.) Post-buckling of elastic annular plates at multiple eigenvalues. **90c:73057**
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58C50 Analysis on supermanifolds or graded manifolds

Bershadskiĭ, M. A. Super-Riemann surfaces, loop measure, etc. **90b:58029**
Boyer, C. P. (*with* Sánchez Valenzuela, Oscar Adolfo) Some problems of elementary calculus in superdomains (with a survey on the theory of supermanifolds). **90d:58023**
Bruzzo, Ugo Global Utiyama's theorem in curved superspace. **90j:58016**
Fatyga, B. W. (*with* Kostelecký, V. Alan; Truax, D. Rodney) Grassmann-valued fluid dynamics. **90j:58017**
Khrennikov, A. Yu. Superanalysis: theory of generalized functions and pseudodifferential operators. (Russian. English summary) **90f:58019b**
— Functional superanalysis. **90f:58019a**
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Ktitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
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Abramov, Viktor Anatol′evich Formal geometry and a BRST-invariant Lagrangian. (Russian. English summary) **90k:58058**
Bartocci, Claudio (*with* Bruzzo, Ugo; Landi, Giovanni) Chern-Simons forms on principal superfiber bundles. **90j:58004**
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Bryant, Peter R. Supermanifolds, supersymmetry and Berezin integration. **90c:58014**
— Global properties of supermanifolds and their bodies. **90m:58010**
Cianci, Roberto An approach to solve a system of partial differential equations on superspace. **90g:58150**
Constantinescu, F. (*with* de Groote, H. F.) The integral theorem for supersymmetric invariants. **90d:58021**
De Concini, C. (*with* Fucito, F.; Tirozzi, Brunello) Conformal theories, Grassmannians and soliton hierarchies. I. **90f:58157**
Dupliĭ, S. A. Nilpotent mechanics and supersymmetry. (Russian. English summary) **90c:58053**
Fucito, F. Conformal theories, Grassmannians and soliton hierarchies. II. **90f:58158**
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Gaveau, Bernard (*with* Schulman, L. S.) Dirac equation path integral: interpreting the Grassmann variables. (Italian and Russian summaries) **90k:81054**
de Groote, H. F. *see* **Constantinescu, F., 90d:58021**
Jarvis, P. D. Supersymmetric quantum mechanics and the index theorem. **90m:58200**
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Mathieu, Pierre Supersymmetric extension of the Korteweg-de Vries equation. **90i:58078**
Mezincescu, L. (*with* Nepomechie, Rafael I.; Zachos, Cosmas K.) (Super)conformal algebra on the (super)torus. **90e:17029**
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Pestoff, V. G. Interpreting superanalyticity in terms of convergent series. **90k:58008**
Rakowski, Mark (*with* Thompson, George) Connections on vector bundles over super Riemann surfaces. **90f:53058**
Rogers, Alice A superspace path integral proof of the Gauss-Bonnet-Chern theorem. **90e:58012**
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Roslyĭ, A. A. (*with* Shvarts, A. S.; Voronov, A. A.) Superconformal geometry and string theory. **90b:58274**
Schmitt, Thomas[1] Submersions, foliations, and RC-structures on smooth supermanifolds. **90b:58015**
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Shnider, S. (*with* Wells, R. O., Jr.) ★ Supermanifolds, super twistor spaces and super Yang-Mills fields. **90g:58005**
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Soroka, V. A. On Hamilton systems with even and odd Poisson brackets. **90h:81066**
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Susperregui Lesaca, Julian Fitting invariants for modules over anticommutative graded rings. **90h:16006**
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Volkov, D. V. (*with* Pashnev, A. I.; Soroka, V. A.; Tkach, V. I.) Hamiltonian dynamical systems with even and odd Poisson brackets. **90h:58034**
Voronov, A. A. *see* **Roslyĭ, A. A.; et al., 90b:58274**
Voronov, F. F. A class of integral transforms that are induced by morphisms of vector bundles. **90g:53084**
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Berry, Michael Victor Stokes' phenomenon; smoothing a Victorian discontinuity. **90j:58019**
Borisovich, Yu. G. Global analysis and solvability of nonlinear boundary value problems. (Russian) **90m:58022**
Grin′, A. N. On an expansion of a strongly degenerate mapping. (Russian) **90j:58020**
Jongen, H. T. (*with* Pallaschke, D.) On linearization and continuous selections of functions. **90a:58018**
Pallaschke, D. *see* **Jongen, H. T., 90a:58018**
Riahi, Hassan *see* **Attouch, Hédy, 90m:58021**
Serovaĭskiĭ, S. Ya. Lyusternik's theorem for a class of irregular manifolds. (Russian. Kazakh summary) **90k:58029**
Wang, Ti Xiang Accretive operators and differential inclusion in Banach manifolds. **90k:58030**
Woronowicz, S. L. Differential calculus on compact matrix pseudogroups (quantum groups). **90g:58010**

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Canarutto, Daniel (*with* Michor, Peter W.) On the stability of b-incompleteness in the Whitney topology on the space of connections. (Italian summary) **90k:53101**
Estrada, Ricardo (*with* Kanwal, R. P.) An analysis for the delta function with support on the light cone. **90a:46097**

Filin, V. A. On the uniqueness of nonlinear mappings. (Russian. Tajiki summary) **90h:47107**

Hainzl, J. Mehrfache Verzweigung in einem Räuber-Beute-System mit vier Parametern. [Multiple bifurcation in a predator-prey system with four parameters] **90f:92034**

Huang, Si Xun Clifford algebra, theory of its functions and their application to mechanics. **90j:30072**

Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, J.) Pfaffians on Hilbert space. **90g:47041**

Kang, Byung Gai (*with* Park, Sehie) On generalized ordering principles in nonlinear analysis. **90m:54039**

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Kryszewski, W. (*with* Przeradzki, B.; Wereński, S.) Remarks on approximation methods in degree theory. **90b:47098**

Kurakin, L. G. Semi-invariant form of criteria for stability of fixed points of a mapping in critical cases. (Russian) **90k:58103**

Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 90g:47041**

Li, Yu[1] The structure of the solution set for Birkhoff-Kellogg type equations involving A-proper O-epi maps. (Chinese. English summary) **90j:47085**

Maĭstrenko, Yu. L. Preservation of noncompact iterative sequences under perturbations of some nonlinear operators. **90i:47076**

Michor, Peter W. *see* **Canarutto, Daniel, 90k:53101**

Park, Sehie *see* **Kang, Byung Gai, 90m:54039**

Pawłucki, Wiesław (*with* Pleśniak, Wiesław) Approximation and extension of C^∞ functions defined on compact subsets of $\mathbf{C}^n$. **90e:26041**

Pleśniak, Wiesław *see* **Pawłucki, Wiesław, 90e:26041**

Przeradzki, B. *see* **Kryszewski, W.; et al., 90b:47098**

Reder, Christine Observation macroscopique de phénomènes microscopiques. [Macroscopic observation of microscopic phenomena] (*see* **90j:03116**)

Sasin, Wiesław On locally countably generated differential spaces. **90g:58003**

Segev, Reuven (*with* Ailon, Amit) Jet locality as implied by body self-determinism and continuity. **90i:73012**

Weitsman, J. *see* **Jaffe, Arthur; et al., 90g:47041**

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Winiarska, Teresa Dependence on parameter of solution of a nonlinear problem. **90f:47099**

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57Q05]

Arakelyan, T. A. (*with* Savvidi, G. K.) Geometry of a group of area-preserving diffeomorphisms. **90g:58011**

Brenier, Yann The least action principle and the related concept of generalized flows for incompressible perfect fluids. **90g:58012**

Freedman, Michael H. A note on topology and magnetic energy in incompressible perfectly conducting fluids. **90b:58030**

Grabowski, Janusz Free subgroups of diffeomorphism groups. **90b:58031**

Guo, Han Ying (*with* Shen, Jian Min; Wang, Shi Kun; Xu, Kai Wen) Diffeomorphism and Beltrami algebras on torus. **90e:58013**

Hoppe, Jens Diffeomorphism groups, quantization, and SU(∞). **90k:58031**

Linden, Martin (*with* Reckziegel, Helmut) On the differentiability of maps into Lie transformation groups. **90h:58010**

Lukatskiĭ, A. M. The structure of the curvature tensor of the group of measure-preserving diffeomorphisms of a two-dimensional compact manifold. **90f:58020**

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Sakai, Katsuro (*with* Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. **90a:58019**

Savvidi, G. K. *see* **Arakelyan, T. A., 90g:58011**

Schramm, Alec J. *see* **Stahlhofen, Alfons, 90i:58017**

Shen, Jian Min *see* **Guo, Han Ying; et al., 90e:58013**

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Eden, A. Local Lyapunov exponents and a local estimate of Hausdorff dimension. **90m:58125**

Floratos, E. G. The Heisenberg-Weyl group on the $Z_N \times Z_N$ discretized torus membrane. **90i:81117**

Friedman, John L. (*with* Witt, Donald M.) Problems on diffeomorphisms arising from quantum gravity. **90c:57028**

Ghys, Étienne (*with* Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] **90c:57035**

Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity. **90c:58044**

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— *see also* **Shishkov, S. Yu., 90c:76120**

Jaffe, Arthur (*with* Lesniewski, Andrzej; Osterwalder, Konrad) Quantum K-theory. I. The Chern character. **90a:58170**

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Konisi, Gaku (*with* Saito, Takesi; Takahasi, Wataru) Geometric and BRST formulations of interacting strings. **90c:81195**

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Mack, Gerhard *see* **Buchholz, Detlev; et al., 90h:81067**

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Maxim-Răileanu, Liliana Critical mappings of Riemannian manifolds and the slice theorem for an action of the diffeomorphism group. **90f:58030**

(Menikoff, Ralph) *see* **Shishkov, S. Yu., 90c:76120**

Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 90c:58044**

Ne'eman, Yuval (*with* Šijački, Djordje) Curved space-time and supersymmetry treatments for p-extendons. **90b:81099**

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Palis, J. (*with* Yoccoz, Jean-Christophe) Rigidity of centralizers of diffeomorphisms. **90i:58151a**

— (*with* Yoccoz, Jean-Christophe) Centralizers of Anosov diffeomorphisms on tori. **90i:58151b**

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58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47Dxx, 47H20]

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Takáč, Peter Asymptotic behavior of discrete-time semigroups of sublinear, strongly increasing mappings with applications to biology. **90j:47088**

Taubes, Clifford Henry The stable topology of self-dual moduli spaces. **90f:58023**

58D10 Spaces of imbeddings and immersions

Binz, E. Isometric Euclidean embeddings of a compact manifold form a Fréchet manifold. **90i:58018**

Pierce, John Festus Local triviality of the restriction map for immersions with normal crossings: an extension of a result of R. Palais. **90h:58011**

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Arteaga, Carlos Centralizers of immersions of the circle. **90k:58099**

Flegmann, A. M. The parallel rank of a submanifold of Euclidean space. **90h:57035**

Labourie, François Immersions isométriques elliptiques et courbes pseudo-holomorphes. [Elliptic isometric immersions and pseudoholomorphic curves] **90k:53097**

58D15 Manifolds of mappings [see also 54C35]

Agrachëv, A. A. The topology of quadratic mappings and Hessians of smooth mappings.

(Russian) **90b:58032**

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Driver, Bruce K. Classifications of bundle connection pairs by parallel translation and lassos. **90b:58033**

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— The geometry of the moduli space of CP^2 instantons. **90m:58023**

Habermann, L. On the geometry of the space of Sp(1)-instantons with Pontrjagin index 1 on the 4-sphere. **90b:58034**

Kobayashi, Shoshichi Manifolds over function algebras and mapping spaces. **90g:58014**

Michor, Peter W. Gauge theory for diffeomorphism groups. **90f:58022**

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Solov′ev, M. A. Strengthening of the result of Singer on the absence of a global gauge fixing. **90c:58029**

Taubes, Clifford Henry The stable topology of self-dual moduli spaces. **90f:58023**

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Abbati, M. C. (*with* Cirelli, R.; Manià, A.; Michor, Peter W.) The Lie group of automorphisms of a principal bundle. **90m:58012**

Arnol′d, V. I. Spaces of functions with moderate singularities. (Russian) **90m:58016**

Asorey, Manuel Topological effects in Yang-Mills theory in $2+1$ dimensions. **90i:81062**

Baranov, M. A. (*with* Frolov, I. V.; Shvarts, A. S.) The geometry of the superconformal moduli space. **90i:32033**

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— Besov spaces on compact Lie groups. **90a:46072**

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Maxim-Răileanu, Liliana Critical mappings of Riemannian manifolds and the slice theorem for an action of the diffeomorphism group. **90f:58030**

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Murray, M. K. Stratifying monopoles and rational maps. **90i:32032**

Nakai, Isao On the topological structure of smooth equivariant mappings. I. The local linearization theorem for smooth involutive and relative mappings. **90k:58022**

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Ohyama, Yousuke *see* **Ueno, Kenji, (90j:81004)**

Pekonen, Osmo ★ Contributions to and a survey on moduli spaces of differential geometric structures with applications in physics. **90f:58012**

Pickrell, Doug On the Mickelsson-Faddeev extension and unitary representations. **90i:22037**

Pierce, John Festus Local triviality of the restriction map for immersions with normal crossings: an extension of a result of R. Palais. **90h:58011**

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— (*with* Wong, Raymond Y.) Conjugating homeomorphisms to uniform homeomorphisms. **90a:58019**

— A function space triple of a compact polyhedron into an open set in Euclidean space. **90d:57021**

Shen, Chun Li On the holomorphic maps from Riemann surfaces to Grassmannians. **90e:58035**

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Witten, Edward Quantum field theory and the Jones polynomial. **90h:57009**

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58D17 Manifolds of metrics (esp. Riemannian)

Andersson, Lars Åke On the space of asymptotically Euclidean metrics. **90e:58014**

Maxim-Răileanu, Liliana The manifold of Riemannian metrics on a compact manifold with boundary. **90g:58015**

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Anderson, Michael T. Moduli spaces of Einstein metrics on 4-manifolds. **90i:58199**

— Ricci curvature bounds and Einstein metrics on compact manifolds. **90g:53052**

Gravesen, Jens Complex structures in the Nash-Moser category. **90k:32070**

Grimaldi, Renata Sur l'existence d'une infinité continue de structures asymptotiques sur $\mathbf{R}^2$. [Existence of a continuous infinity of asymptotic structures in $\mathbf{R}^2$] **90f:53077**

Jeune, Albert Solutions globales de l'équation de Ricci sur $\mathbf{R}^n$ dans les espaces de Sobolev à poids. (English summary) [Global solutions to the Ricci equation in $\mathbf{R}^n$ in weighted Sobolev spaces] **90i:35099**

Nitta, Takashi Moduli spaces of Yang-Mills connections over quaternionic Kähler manifolds. **90i:53091**

Schoen, Richard Variational theory for the total scalar curvature functional for Riemannian metrics and related topics. **90g:58023**

Smolentsev, N. K. Orthogonal decompositions of the space of symmetric tensors on an almost Kählerian manifold. **90f:53070**

Wolf, Michael The Teichmüller theory of harmonic maps. **90b:58023**

58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

Li, Miao Holomorphic structure of closed strings: left-moving sector. **90a:58020**

Shavgulidze, E. T. A measure that is quasi-invariant with respect to the action of a group of diffeomorphisms of a finite-dimensional manifold. **90c:58030**

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Fu, Joseph H. G. Curvature measures and generalized Morse theory. **90j:53094**

Kusuoka, Shigeo Degree theorem in certain Wiener Riemannian manifolds. **90c:58017**

Marion, Jean Albert Wiener functionals on spaces of Lie algebra valued 1-currents, and unitary representations of current groups. **90i:22035**

Paycha, Sylvie Mesures et déterminants en dimension infinie dans le modèle des cordes de Polyakov. (English summary) [Infinite-dimensional measures and determinants in the Polyakov model for strings] **90f:81124**

Uglanov, A. V. The quotient of smooth measures is a smooth function. (Russian) **90m:46079**

58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15]

Applebaum, David Stochastic evolution of Yang-Mills connections on the noncommutative two-torus. **90c:58031**

Bates, P. W. (*with* Jones, Christopher K. R. T.) Invariant manifolds for semilinear partial differential equations. **90g:58017**

Biehounek, J. Über dissipative Strömungen und statistische Lösungen von Anfangs-Randwertproblemen. [On dissipative flows and statistical solutions of initial-boundary value problems] **90j:58022**

Choquet-Bruhat, Yvonne Global solutions of Yang-Mills equations on anti-de Sitter spacetime. **90k:58032**

DiPerna, R. J. (*with* Lions, P.-L.) Équations différentielles ordinaires et équations de transport avec des coefficients irréguliers. [Ordinary differential equations and transport equations with irregular coefficients] **90m:58024**

Jones, Christopher K. R. T. *see* **Bates, P. W., 90g:58017**

Laborde, P. (*with* Nguyen Quoc Son) Étude de l'équation d'évolution des systèmes dissipatifs standards. (English summary) [Study of the evolution equation of standard dissipative systems] **90m:58025**

Lions, P.-L. *see* **DiPerna, R. J., 90m:58024**

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Poláčik, Peter Convergence in smooth strongly monotone flows defined by semilinear parabolic equations. **90f:58025**
Prikarpat·skiĭ, A. K. *see* **Mitropol′skiĭ, Yu. A.; et al., 90a:58021**
Samoĭlenko, V. Gr. *see* **Mitropol′skiĭ, Yu. A.; et al., 90a:58021**
Świerczyński, Z. On the Cauchy problem for Yang-Mills equations with external current. **90j:58023**
Tuzinkevich, A. V. Qualitative investigation of the dynamics of an integro-differential equation. (Russian) **90a:58022**

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Abergel, F. Existence and finite dimensionality of the global attractor for evolution equations on unbounded domains. **90m:58121**
Albeverio, S. (*with* Høegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. **90i:35215**
Babin, A. V. (*with* Vishik, M. I.) Asymptotic behavior of trajectories of a semigroup and perturbation of attractors. (Russian) **90m:58122**
— (*with* Vishik, M. I.) Semigroups that depend on a parameter, their attractors and asymptotic behavior. (Russian) **90k:58116**
Baxendale, Peter H. (*with* Stroock, Daniel W.) Large deviations and stochastic flows of diffeomorphisms. **90g:58144**
Biler, Piotr Asymptotic behavior of solutions and universal attractors for a system of nonlinear hyperbolic equations. (*see* **90i:35002**)
Bishop, A. R. (*with* McLaughlin, D. W.; Salerno, Mario) Global coordinates for the breather-kink (antikink) sine-Gordon phase space: an explicit separatrix as a possible source of chaos. **90j:58105**
Braam, Peter J. Magnetic monopoles on three-manifolds. **90e:53040**
Burzlaff, J. Time-dependent vortices and monopoles. **90k:81110**
Calsina Ballesta, Ángel Stability of bifurcating solutions of reaction-diffusion equations of cylindrical domains. **90i:35034**
Carfora, M. (*with* Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. **90m:53054**
Chen, Tsu-Fen (*with* Levine, Howard A.; Sacks, Paul E.) Analysis of a convective reaction-diffusion equation. **90a:35117**
Choquet-Bruhat, Yvonne Global existence for nonlinear σ-models. **90k:58048**
— (*with* Gu, Chao Hao) Existence globale d'applications harmoniques sur l'espace-temps de Minkowski M_3. (English summary) [Global existence of harmonic maps on Minkowski spacetime M_3] **90b:58048**
— Solutions globales d'équations d'ondes sur l'espace-temps anti de Sitter. (English summary) [Global solutions of wave equations on anti-de Sitter spacetime] **90b:83008**
Constantin, P. (*with* Foiaş, Ciprian; Nicolaenko, Basil; Temam, R.) ★ Integral manifolds and inertial manifolds for dissipative partial differential equations. **90a:35026**
DiPerna, R. J. (*with* Lions, P.-L.) Ordinary differential equations, transport theory and Sobolev spaces. **90j:34004**
Elliott, Robert J. (*with* Kohlmann, Michael) Integration by parts, homogeneous chaos expansions and smooth densities. **90m:60065**
Elworthy, K. David Geometric aspects of diffusions on manifolds. **90c:58187**
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Gaveau, Bernard (*with* Schulman, L. S.) Dirac equation path integral: interpreting the Grassmann variables. (Italian and Russian summaries) **90k:81054**
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— Upper bounds on the Lyapunov exponents for dissipative perturbations of infinite-dimensional Hamiltonian systems. (French summary) **90k:58120**
Grusa, K.-U. ★ Mathematical analysis of nonlinear dynamic processes. **90c:93058**
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Hale, Jack K. Compact attractors and singular perturbations. **90g:58071**
— *see also* **Raugel, Geneviève, 90k:58121**
Høegh-Krohn, Raphael *see* **Albeverio, S., 90i:35215**
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Izé, A. F. An infinite-dimensional extension of theorems of Hartman and Wintner on monotone positive solutions of ordinary differential equations. **90m:34128**
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Kawarada, Hideo (*with* Koshigoe, Hideyuki) Nonlinear evolution equations of Moser's type. **90a:35113**
Kluvánek, Igor ★ Integration structures. **90c:28014**
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Koshigoe, Hideyuki *see* **Kawarada, Hideo, 90a:35113**
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Levine, Howard A. *see* **Chen, Tsu-Fen; et al., 90a:35117**
Likhtarnikov, A. L. Global asymptotics and quasiregularity of attractors in nonlinear problems of mathematical physics. (Russian) **90f:58111**
Lions, P.-L. *see* **DiPerna, R. J., 90j:34004**
Litinsky, Eugene Polynomial integrals of evolution equations. **90a:58073**
Mallet-Paret, John (*with* Sell, G. R.) Inertial manifolds for reaction diffusion equations in higher space dimensions. **90h:58056**
Marion, Martine Inertial manifolds associated to partly dissipative reaction-diffusion systems. **90m:35097**
McLaughlin, D. W. *see* **Bishop, A. R.; et al., 90j:58105**
Nicolaenko, Basil Inertial manifolds for models of compressible gas dynamics. **90m:35179**
— *see also* **Constantin, P.; et al., 90a:35026**
Oharu, Shinnosuke (*with* Takahashi, Tadayasu) Characterization of nonlinear semigroups associated with semilinear evolution equations. **90a:47165**
Pan, Jian Solution of a continuous population evolution equation. (Chinese. English summary) **90f:92020**
Poláčik, Peter Domains of attraction of equilibria and monotonicity properties of convergent trajectories in parabolic systems admitting strong comparison principle. **90i:58099**
Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**
— ★ Continual means and boundary value problems in function spaces. **90m:35195**
Prikarpat·skiĭ, A. K. (*with* Kalenyuk, P. I.) Gibbs representations of the Lie algebra of currents, and the complete system of N. N. Bogolyubov quantum functional equations in equilibrium statistical mechanics. **90f:22026**
Przeszowski, Jerzy Cauchy problem for gauge field theories with external sources. **90g:81143**
Raugel, Geneviève Continuity of attractors. (French summary) **90k:58121**
Roberts, A. J. Appropriate initial conditions for asymptotic descriptions of the long term evolution of dynamical systems. **90h:58075**
Roĭtberg, Ya. A. (*with* Sheftel′, Z. G.) On the denseness of solutions to elliptic problems with localized right-hand sides in function spaces on a manifold. **90i:35118**
Sacks, Paul E. *see* **Chen, Tsu-Fen; et al., 90a:35117**
Salerno, Mario *see* **Bishop, A. R.; et al., 90j:58105**
Schmid, Rudolf ★ Infinite-dimensional Hamiltonian systems. **90f:58072**
Schulman, L. S. *see* **Gaveau, Bernard, 90k:81054**
Sell, G. R. *see* **Mallet-Paret, John, 90h:58056**
Sheftel′, Z. G. *see* **Roĭtberg, Ya. A., 90i:35118**
Sheĭnman, O. K. The kernel of an evolution operator in the space of sections of a vector bundle as an integral over trajectories. **90m:58205**
Shi, Wan-Xiong Deforming the metric on complete Riemannian manifolds. **90i:58202**
Soffer, A. (*with* Weinstein, M. I.) Multichannel nonlinear scattering theory for nonintegrable equations. **90m:35189**
Stroock, Daniel W. *see* **Baxendale, Peter H., 90g:58144**
Takahashi, Tadayasu *see* **Oharu, Shinnosuke, 90a:47165**
Temam, R. Induced trajectories and approximate inertial manifolds. **90i:58100**
— *see also* **Constantin, P.; et al., 90a:35026**
Vázquez, Luis Principles of solitary wave stability. **90j:58072**
(Vershik, A. M.) *see* **Polishchuk, E. M., 90a:35216** *and* **90m:35195**
Vishik, M. I. *see* **Babin, A. V., 90k:58116** *and* **90m:58122**
Vrabie, Ioan I. Periodic solutions for nonlinear evolution equations in a Banach space. **90k:34080**
Weinstein, M. I. *see* **Soffer, A., 90m:35189**
Wu, Jian Hong Convergence of monotone dynamical systems with minimal equilibria. **90j:58130**

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

Cameron, R. H. (*with* Storvick, D. A.) New existence theorems and evaluation formulas for analytic Feynman integrals. **90d:58025**
Junker, G. Explicit path integration on homogeneous spaces. **90c:58033**
Rogers, Alice Path integration in superspace. **90a:58023**
Segal, G. B. The definition of conformal field theory. **90d:58026**
Singer, I. M. Some problems in the quantization of gauge theories and string theories. **90a:58024**
Storvick, D. A. *see* **Cameron, R. H., 90d:58025**

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Aldaya, Víctor (*with* Navarro-Salas, José; Ramirez, Alfonso) Algebraic quantization on a group and nonabelian constraints. **90b:58095**
Aoyama, S. Conformally invariant Yang-Mills theory realizing the Virasoro-Kac-Moody algebra. **90c:81103**
Arai, Asao Formal aspects of supersymmetric embedding of Hamiltonians in quantum scalar field theories. **90d:81079**
Asorey, Manuel Topological effects in Yang-Mills theory in 2 + 1 dimensions. **90i:81062**
Binz, E. (*with* Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. **90a:58045**
Böhm, Manfred (*with* Junker, G.) Path integration over the n-dimensional Euclidean group. **90g:81054**
Bowick, Mark J. The geometry of string theory. **90j:81171**
Bridges, Thomas J. The Hopf bifurcation with symmetry for the Navier-Stokes equations i $(L_p(\Omega))^n$, with application to plane Poiseuille flow. **90f:35022**
Bruzzo, Ugo (*with* Landi, Giovanni) Simple proof of Weil triviality in supersymmetric gauge theories. **90h:53091**
Burzlaff, J. Time-dependent vortices and monopoles. **90k:81110**
Cameron, R. H. (*with* Storvick, D. A.) Unbounded Feynman integrable functionals defined in terms of analytic functions. **90b:81030**
Carfora, M. (*with* Marzuoli, A.) Functional measures on the space of n-dimensional Riemannian geometries. **90a:58016**
Carlip, Steven (*with* DeWitt-Morette, Cécile) Where the sign of the metric makes a difference. **90m:81096a**
— (*with* DeWitt-Morette, Cécile) Erratum: "Where the sign of the metric makes a difference". **90m:81096b**
Chappell, M. J. (*with* Elworthy, K. David) Flows of Newtonian diffusions. **90f:60140**
Choquet-Bruhat, Yvonne Global existence theorems by the conformal method. **90g:58130**
DeWitt, Bryce S. ★ Динамическая теория групп и полей. (Russian) [Dynamical theory of groups and fields] **90a:81118**
DeWitt-Morette, Cécile Choices of quantum representations of classical dynamical systems **90k:81084**
— *see also* **Carlip, Steven, 90m:81096a** *and* **90m:81096b**
Durrer, Ruth (*with* Straumann, N.) Some applications of the 3 + 1 formalism of general relativity. **90b:83003**
Elworthy, K. David *see* **Chappell, M. J., 90f:60140**

Fei, Shao Ming (*with* Yu, Yue) The BKS kernel of bosonic strings and path integrals. (Chinese. English summary) **90i:58064**
Fischer, Hans Rudolf *see* **Binz, E.; et al., 90a:58045**
Floratos, E. G. The Heisenberg-Weyl group on the $Z_N \times Z_N$ discretized torus membrane. **90i:81117**
Francisco, Gerson Kasner initial conditions in globally hyperbolic spacetimes. **90k:83024**
Friedman, John L. (*with* Witt, Donald M.) Problems on diffeomorphisms arising from quantum gravity. **90c:57028**
Furuta, Mikio The application of gauge theory to topology. (Japanese) **90c:57015**
Gao, Hong Bo Some properties of moduli space of lower-dimensional heterotic strings. **90c:81181**
Garczyński, Włodzimierz Invariance property of Senjanović measure and its role in quantization of constrained systems. **90h:81039**
Gorokhov, A. V. Coherent states on Lie groups and path integrals. **90e:81077**
Grosche, Christian The path integral on the Poincaré upper half-plane with a magnetic field and for the Morse potential. **90c:81057**
Johnson, Gerald W. (*with* Lapidus, Michel L.) Noncommutative operations on Wiener functionals and Feynman's operational calculus. **90e:81053**
Junker, G. *see* **Böhm, Manfred, 90g:81054**
Karlhede, A. (*with* Roček, M.) Topological quantum field theories in arbitrary dimensions. **90h:57039**
Kijowski, Jerzy (*with* Rudolph, Gerd) The functional integral on the gauge orbit space for a nonabelian Higgs model. **90j:81113**
Koretune, Susumu A transformation making the Berry phase in a chiral gauge theory invariant. **90c:81111**
Koval'chik, Yu. I. Approximate calculation of Feynman integrals using the Taylor formula. (Russian) **90k:28029**
Ktitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
Landi, Giovanni *see* **Bruzzo, Ugo, 90h:53091**
Lapidus, Michel L. Strong product integration of measures and the Feynman-Kac formula with a Lebesgue-Stieltjes measure. **90c:28021**
— *see also* **Johnson, Gerald W., 90e:81053**
Lukatskiĭ, A. M. The structure of the curvature tensor of the group of measure-preserving diffeomorphisms of a two-dimensional compact manifold. **90f:58020**
Marzuoli, A. *see* **Carfora, M., 90a:58016**
Mateos Guilarte, Juan The supersymmetric Yang-Mills vacuum. Topology and physics. **90j:81110**
Menskiĭ, M. B. A group-theoretical approach to a path integral. **90d:81041**
Mickelsson, J. Commutator anomalies and the Fock bundle. **90m:58013**
Mokhov, O. I. Canonical variables for two-dimensional vortical hydrodynamics of an incompressible fluid. **90d:76022**
Morozov, A. Yu. (*with* Ol'shanetskiĭ, M. A.) Statistical sum of the bosonic string, compactified on an orbifold. **90a:81151**
(Mukhanov, V. F.) *see* **DeWitt, Bryce S., 90a:81118**
Murray, M. K. Stratifying monopoles and rational maps. **90i:32032**
Naber, Gregory L. ★ Spacetime and singularities. **90e:83078**
Navarro-Salas, José *see* **Aldaya, Víctor; et al., 90b:58095**
Nelson, J. E. (*with* Regge, T.) Canonical theories from the group manifold. **90i:83087**
Nill, Florian Faddeev-Popov trick and loop expansion in the presence of Gribov copies. A differential geometric survey. **90j:81119**
Ogura, Waichi Path integral and operator formalism on bordered Riemann surfaces. **90k:81235**
Ol'shanetskiĭ, M. A. *see* **Morozov, A. Yu., 90a:81151**
Paycha, Sylvie Quantization of bosonic closed strings and the Liouville model. **90j:81236**
Picken, R. F. The propagator for quantum mechanics on a group manifold from an infinite-dimensional analogue of the Duistermaat-Heckman integration formula. **90m:81028**
Podio-Guidugli, Paolo (*with* Vianello, Maurizio) Constraint manifolds for isotropic solids. **90h:73007**
Ramirez, Alfonso *see* **Aldaya, Víctor; et al., 90b:58095**
Regge, T. *see* **Nelson, J. E., 90i:83087**
Roček, M. *see* **Karlhede, A., 90h:57039**
Rogers, Alice A superspace path integral proof of the Gauss-Bonnet-Chern theorem. **90e:58012**
Rudolph, Gerd *see* **Kijowski, Jerzy, 90j:81113**
Saraykar, Ravi V. *see* **Wagh, Sanjay M., 90g:83008**
Schaposnik, Fidel A. (*with* Thompson, George) Topological field theory and two-dimensional abelian-Higgs instantons. **90i:81145**
Shaharir, bin Mohamed Zain A unifying method of obtaining the Feynman, Kac, Cameron and Albeverio-Høegh-Krohn solution to the heat or Schrödinger equation. **90j:81056**
Skoug, David Feynman integrals involving quadratic potentials, stochastic integration formulas, and bounded variation for functions of several variables. **90d:28018**
Śniatycki, Jędrzej *see* **Binz, E.; et al., 90a:58045**
Solov'ev, V. O. Hamiltonian approach in the relativistic theory of gravitation and in the general theory of relativity. **90f:83062**
Stone, Michael Supersymmetry and the quantum mechanics of spin. **90b:81036**
Storvick, D. A. *see* **Cameron, R. H., 90b:81030**
Straumann, N. *see* **Durrer, Ruth, 90b:83003**
Thompson, George *see* **Schaposnik, Fidel A., 90i:81145**
Troshkin, O. V. The algebraic structure of two-dimensional stationary Navier-Stokes equations, and nonlocal uniqueness theorems. **90c:35169**
Tze, Chia Hsiung Manifold-splitting regularization, self-linking, twisting, writhing numbers of space-time ribbons and Polyakov's proof of Fermi-Bose transmutations. **90e:81239**
Viallet, Claude-M. The geometry of the space of fields in Yang-Mills theory. **90i:53097**
Vianello, Maurizio *see* **Podio-Guidugli, Paolo, 90h:73007**
(Vilkoviskiĭ, G. A.) *see* **DeWitt, Bryce S., 90a:81118**
Wagh, Sanjay M. (*with* Saraykar, Ravi V.) Conformally flat initial data for general relativity in Ashtekar's variables. **90g:83008**
Witt, Donald M. *see* **Friedman, John L., 90c:57028**
Witten, Edward Quantum field theory and the Jones polynomial. **90h:57009**
Wu, Yong Shi[1] Functional gauge structure and topological aspects in quantum field theories. **90j:81128**
Yu, Yue *see* **Fei, Shao Ming, 90i:58064**
Zastawniak, T. Path integrals for the Dirac equation—some recent developments in mathematical theory. **90j:81057**

58D99 None of the above, but in this section

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Almeida, P. Noncommutative Schwarz lemmata. **90a:58017**
Avron, J. E. (*with* Raveh, Amir; Zur, B.) Adiabatic quantum transport in multiply connected systems. **90f:82041**
Baum, Helga 1-forms over the moduli space of irreducible connections defined by the spectrum of Dirac operators. **90g:58142**
Baxendale, Peter H. Lyapunov exponents and relative entropy for a stochastic flow of diffeomorphisms. **90j:60058**
Blank, M. L. Metric properties of minimal solutions of discrete periodical variational problems. **90d:58031**
Canarutto, Daniel (*with* Michor, Peter W.) On the stability of b-incompleteness in the Whitney topology on the space of connections. (Italian summary) **90k:53101**
Doi, Hideo (*with* Okai, Takayuki) Moduli space of 1-instantons on a quaternionic projective space HP^n. **90k:32068**
Furuta, Mikio A remark on a fixed point of finite group action on S^4. **90g:57032**
Michor, Peter W. *see* **Canarutto, Daniel, 90k:53101**
Mickelsson, J. ★ Current algebras and groups. **90m:22044**
Mizutani, Tadayoshi A formula for characteristic classes of foliated $\mathbf{R}^n$-products. **90i:57017**
Okai, Takayuki *see* **Doi, Hideo, 90k:32068**
Raveh, Amir *see* **Avron, J. E.; et al., 90f:82041**
Schmidke, William B. (*with* Vokos, Stamatis P.) Geometric structures of super-(Diff$(S^1)/S^1$). **90c:58020**
Turaev, V. G. Euler structures, nonsingular vector fields, and Reidemeister-type torsions. **90m:57021**
Vokos, Stamatis P. *see* **Schmidke, William B., 90c:58020**
Wheeler, John Archibald Geometrodynamic steering principle reveals the determiners of inertia. **90g:83063**
Zur, B. *see* **Avron, J. E.; et al., 90f:82041**

58Exx Variational problems in infinite-dimensional spaces

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Hildebrandt, Stefan The calculus of variations today. **90k:01018**
(Madzharova, Yana) *see* **Nirenberg, L., 90e:58002**
Nirenberg, L. Mathematical methods in nonlinear problems. (Bulgarian) **90e:58002**
(Shenitzer, A.) *see* **Hildebrandt, Stefan, 90k:01018**

58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)

Bahri, Abbas (*with* Lions, P.-L.) Morse index of some min-max critical points. I. Application to multiplicity results. **90b:58035**
Berger, M. S. (*with* Chen, Yi-Ying) Symmetric vortices for the Ginzburg-Landau equations of superconductivity and the nonlinear desingularization phenomenon. **90f:58026**
Bott, Raoul Morse theory indomitable. **90f:58027**
Brézis, Haïm Points critiques dans les problèmes variationnels sans compacité. [Critical points in variational problems without compactness] **90d:58027**
Caklovic, L. (*with* Li, Shu Jie; Willem, M.) A note on Palais-Smale condition and coercivity. **90m:58027**
Chen, Yi-Ying *see* **Berger, M. S., 90f:58026**
Church, P. T. (*with* Timourian, J. G.) A nonlinear elliptic operator and its singular values. **90d:58028**
Combet, E. Inégalités de Morse d'après E. Witten. [Morse inequalities, following E. Witten] **90m:58028**
Dos Santos, Josenildo An equivariant GMM-theory via the P-ideal valued cohomological index. **90m:58029**
Ekeland, Ivar The mountain pass theorem and some applications. **90e:58015**
Floer, Andreas Witten's complex and infinite-dimensional Morse theory. **90d:58029**
Fournier, G. (*with* Willem, M.) Simple variational methods for unbounded potentials. **90m:58030**
Hardt, R. (*with* Simon, Leon) Nodal sets for solutions of elliptic equations. **90m:58031**
Helffer, B. (*with* Sjöstrand, Johannes) A proof of the Bott inequalities. **90g:58018**
Hofer, H. A strong form of the mountain pass theorem and application. **90b:58036**
Kim, Soon Kyu (*with* Wang, Ti Xiang) The generalized Morse lemma and the Euler characteristic on Banach manifolds. **90h:58012**
Li, Shu Jie Multiple periodic solutions of some second order dynamical system. (Italian summary) **90k:58033**
— *see also* **Caklovic, L.; et al., 90m:58027**
Lions, P.-L. *see* **Bahri, Abbas, 90b:58035**
Liu, Jia Quan A geometrical index for the group $\mathbf{Z}^p$. **90k:58034**
— A generalized saddle point theorem. **90k:58035**
Mawhin, J. (*with* Willem, M.) ★ Critical point theory and Hamiltonian systems. **90e:58016**
Nirenberg, L. Variational methods in nonlinear problems. **90c:58034**
Pascali, Dan Nonlinear variational eigenvalue inclusions. **90j:58024**
Pisani, Raffaele (*with* Tucci, Maria) Existence of critical points for functionals "quasi-invariant" with respect to a symmetry group. (Italian. English summary) **90a:58025**
Sakkalis, Takis The computation of the index of a Morse function at a critical point. **90a:58026**

Simon, Leon *see* **Hardt, R., 90m:58031**
Sjöstrand, Johannes *see* **Helffer, B., 90g:58018**
Solimini, Sergio Morse index estimates in min-max theorems. **90f:58028**
Szulkin, Andrzej Ljusternik-Schnirelmann theory on C^1-manifolds. (French summary) **90a:58027**
Tanaka, Kazunaga Morse indices at critical points related to the symmetric mountain pass theorem and applications. **90i:58019**
Terziyan, Stepan A. A variational approach to nonresonance problems for semilinear equations in a Hilbert space. **90i:58020**
Timourian, J. G. *see* **Church, P. T., 90d:58028**
Tshinanga, S. B. An invariance property of the critical groups. (Italian summary) **90j:58025**
Tucci, Maria *see* **Pisani, Raffaele, 90a:58025**
Wang, Ti Xiang *see* **Kim, Soon Kyu, 90h:58012**
Wang, Zhi Qiang Multiple solutions for indefinite functionals and applications to asymptotically linear problems. **90g:58019**
Willem, M. Aspects of Morse theory. (Italian summary) **90i:58021**
— *see also* **Mawhin, J., 90e:58016; Caklovic, L.; et al., 90m:58027** *and* **Fournier, G., 90m:58030**
Zhang, Gong Qing On the periodic nonlinearity and the multiplicity of solutions. **90k:58036**

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Ai, Jun (*with* Zhu, Xi Ping) Positive solutions of nonlinear eigenvalue problems. (Chinese. English summary) **90d:35094**
Ambrosetti, A. (*with* Badiale, Marino) The dual variational principle and elliptic problems with discontinuous nonlinearities. **90k:35097**
— (*with* Coti Zelati, Vittorio) Perturbation of Hamiltonian systems with Keplerian potentials. **90g:58105**
Arino, O. (*with* Benkhalti, R.) Periodic solutions for: $\dot{x}(t) = \lambda f(x(t), x(t-1))$. **90b:34099**
Arnol'd, V. I. On some problems in symplectic topology. **90d:58036**
Badiale, Marino A multiplicity result for solutions of semilinear boundary value problems. (Italian. English summary) **90c:34019**
— *see also* **Ambrosetti, A., 90k:35097**
Bahri, Abbas ★ Pseudo-orbits of contact forms. **90i:58160**
— Superlinear elliptic equations. **90k:35099**
— (*with* Rabinowitz, Paul H.) A minimax method for a class of Hamiltonian systems with singular potentials. **90g:58030**
— *see also* **Rabinowitz, Paul H., 90c:58154**
Ball, J. M. Singular minimizers and their significance in elasticity. **90f:49025**
Benci, Vieri (*with* Hofer, H.; Rabinowitz, Paul H.) A remark on a priori bounds and existence for periodic solutions of Hamiltonian systems. **90f:58052**
— (*with* Fortunato, Donato) A "Birkhoff-Lewis" type result for nonautonomous differential equations. **90e:58132**
— (*with* Rabinowitz, Paul H.) A priori bounds for periodic solutions of a class of Hamiltonian systems. **90f:58053**
— (*with* Giannoni, F.) A new proof of the existence of a brake orbit. **90i:58162**
— (*with* Giannoni, F.) Periodic bounce trajectories with a low number of bounce points. (French summary) **90i:58161**
— (*with* Fortunato, Donato) A remark on the nodal regions of the solutions of some superlinear elliptic equations. **90c:35074**
Benkert, F. On the number of stable local minima of some functionals. (German and Russian summaries) **90e:90144**
Benkhalti, R. *see* **Arino, O., 90b:34099**
Berceanu, S. (*with* Gheorghe, Alexandru Cezar) Perfect Morse functions on the manifold of Slater determinants. **90j:81064**
Bertotti, Maria Letizia Multiplicity of kT-periodic solutions near a given T-periodic solution for nonlinear Hamiltonian systems. **90c:58048**
— Multiplicity of subharmonic solutions of forced Hamiltonian systems near an equilibrium. **90k:58060**
Capozzi, A. (*with* Lupo, D.; Solimini, Sergio) On the existence of a nontrivial solution to nonlinear problems at resonance. **90c:35086**
Carr, Jack (*with* Pego, Robert L.) Metastable patterns in solutions of $u_t = \varepsilon^2 u_{xx} - f(u)$. **90f:35091**
Castro, F. M. de Oliveira Sur les équations de distribution. [On distribution equations] **90i:46077a**
— Sur les équations de distribution. II. (English summary) [On distribution equations. II] **90i:46077b**
Cerami, G. Some nonlinear elliptic problems with lack of compactness. **90g:35054**
Chow, Shui-Nee Bifurcation of periodic orbits for nonpositive definite Hamiltonian systems. **90m:58064**
Cicogna, G. (*with* Gaeta, Giuseppe) Periodic solutions from symmetry. **90e:58133**
Clarke, F. H. Action principles and periodic orbits. **90c:58050**
Coclite, Mario Michele Two perturbation results for nondegenerate solutions of some semilinear Dirichlet problems. **90f:35069**
Coffman, C. V. Nonlinear elliptic boundary value problems: Lyusternik-Schnirelman theory, nodal properties and Morse index. **90i:35103**
Coti Zelati, Vittorio Periodic solutions for N-body type dynamical systems. **90j:70018**
— *see also* **Ambrosetti, A., 90g:58105**
Dancer, E. N. Multiple solutions of asymptotically homogeneous problems. **90i:35095**
— A counterexample to the Lazer-McKenna conjecture. **90e:35067**
Degiovanni, M. (*with* Giannoni, F.; Marino, Antonio) Dynamical systems with Newtonian type potentials. (Italian summary) **90j:58125**
— *see also* **Giannoni, F., 90i:58164**
Ding, Yan Heng (*with* Liu, Jia Quan) Periodic solutions of asymptotically linear Hamiltonian systems. (Chinese. English summary) **90f:58056**
D'Onofrio, Biancamaria (*with* Ekeland, Ivar) Hamiltonian systems with elliptic periodic orbits. **90m:58066**
Ekeland, Ivar (*with* Hofer, H.) Symplectic topology and Hamiltonian dynamics. **90a:58046**
— *see also* **D'Onofrio, Biancamaria, 90m:58066**
Fadell, E. Ideal-valued generalizations of Ljusternik-Schnirelmann category, with applications. **90f:55003**
Fan, Xian Ling *see* **Zhang, Hua Xiao, 90e:47057**
Floer, Andreas Morse theory for Lagrangian intersections. **90f:58058**
— Cuplength estimates on Lagrangian intersections. **90g:58034**
Fonda, Alessandro Variational problems at resonance without monotonicity. **90k:47129**
— (*with* Lupo, D.) Periodic solutions of second order ordinary differential equations. (Italian summary) **90m:34090**
— (*with* Willem, M.) Subharmonic oscillations of forced pendulum-type equations. **90i:70031**
Fortunato, Donato *see* **Benci, Vieri, 90c:35074** *and* **90e:58132**
Franzosa, Robert D. The connection matrix theory for Morse decompositions. **90a:58149**
Gaeta, Giuseppe *see* **Cicogna, G., 90e:58133**
Gallouët, Thierry (*with* Mignot, Fulbert; Puel, Jean-Pierre) Quelques résultats sur le problème $-\Delta u = \lambda e^u$. (English summary) [A few results on the equation $-\Delta u = \lambda e^u$] **90c:35088**
Gheorghe, Alexandru Cezar *see* **Berceanu, S., 90j:81064**
Giannoni, F. (*with* Degiovanni, M.) Nonautonomous perturbations of Newtonian potentials. **90i:58164**
— Periodic solutions of dynamical systems by a saddle point theorem of Rabinowitz. **90f:58150**
— *see also* **Benci, Vieri, 90i:58161; 90i:58162** *and* **Degiovanni, M.; et al., 90j:58125**
Girardi, Mario (*with* Matzeu, Michele) Some results on periodic solutions of superquadratic Hamiltonian systems. **90m:58173**
Greco, Carlo Existence of forced oscillations for some singular dynamical systems. **90j:58127**
Greco, Gabriele H. Théorème des minimax locaux et fonctions topologiquement fermées. [Local minimax theorem and topologically closed functions] **90k:49012**
Gromov, Mikhael L. Dimension, nonlinear spectra and width. **90d:58022**
Gupta, Chaitan P. (*with* Nieto, Juan J.; Sanchez, Luis) Periodic solutions of some Liénard and Duffing equations. **90i:34064**
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Gasqui, Jacques (*with* Goldschmidt, Hubert) Infinitesimal rigidity of products of symmetric spaces. **90d:58171**

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58E35 Variational inequalities (global problems)

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Ural′tseva, N. N. On the regularity of solutions of variational inequalities. (Russian) **90c:35033**

58E99 None of the above, but in this section

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58Fxx Ordinary differential equations on manifolds; dynamical systems {For abstract and topological dynamics, see also 28D10, 34C35, 34C40, 54H20.}

Abraham, Ralph H. (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 2. **90m:58057a**
— (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 3. **90m:58057b**
— (*with* Shaw, Christopher D.) Dynamics: a visual introduction. (*see* **90h:92003**)

— (*with* Shaw, Christopher D.) ★ Dynamics—the geometry of behavior. Part 4. **90m:58057c**
Arnol′d, V. I. ★ Mathematical methods of classical mechanics. **90c:58046**
— *see also* **Dynamical systems, 90j:58039**
(Birkhoff, George David) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
(Diner, S.) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
(Dodson, M. M.) *see* **Number theory and dynamical systems, 90j:58040**
(Fargue, Daniel) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
Fomenko, A. T. (*with* Trofimov, V. V.) ★ Integrable systems on Lie algebras and symmetric spaces. **90d:58035**
Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) Some problems in nonlinear dynamics. Dynamical chaos and structures. (Russian) **90e:58040**
Guo, Qian Rong Applications of differential topology to nonlinear dynamics. (Chinese) (*see* **90k:58001**)
Hirsch, Morris W. The dynamical systems approach to differential equations [Bull. Amer. Math. Soc. (N.S.) **11** (1984), no. 1, 1–64; MR 85m:58060]. (Hungarian) (Not in MR)
(Karaulov, A.) *see* **Fomenko, A. T., 90d:58035**
(Kirchgraber, U.) *see* **Dynamics reported, 90a:58041**
Kreuzer, E. ★ Numerische Untersuchung nichtlinearer dynamischer Systeme. (German) [Numerical investigation of nonlinear dynamical systems] **90k:58056**
(Lochak, G.) *see* **Dynamical systems: a renewal of mechanism, 90i:58038**
Medveď, Milan ★ Dynamické systémy. (Slovak) [Dynamical systems] **90k:58057**
(Novikov, S. P.) *see* **Dynamical systems, 90j:58039**
Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 90e:58040**
(Rayfield, P. D.) *see* **Fomenko, A. T., 90d:58035**
Ruelle, D. ★ Elements of differentiable dynamics and bifurcation theory. **90f:58048**
(Sáenz, A. W.) *see* **Methods and applications of nonlinear dynamics, 90f:58049**
(Sharkovskiĭ, A. N.) *see* **Dynamical systems and turbulence, 90m:58058**
Shaw, Christopher D. *see* **Abraham, Ralph H., 90m:58057a; 90m:58057b; 90m:58057c** *and* **(90h:92003)**
Stewart, Ian ★ Does God play dice? **90a:58040**
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(Vickers, J. A. G.) *see* **Number theory and dynamical systems, 90j:58040**
(Vogtmann, K.) *see* **Arnol′d, V. I., 90c:58046**
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(Wassermann, Gordon) *see* **Dynamical systems, 90j:58039**
(Weinstein, Alan D.) *see* **Arnol′d, V. I., 90c:58046**
(Weisman, A.) *see* **Fomenko, A. T., 90d:58035**

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Anniversary:
Birth of Birkhoff, George David ★ Dynamical systems: a renewal of mechanism. **90i:58038**
Attractors, inertial manifolds and their approximation ★ Attractors, inertial manifolds and their approximation. **90c:58047**
Conference:
Infinite-dimensional Dissipative Systems ★ Attractors, inertial manifolds and their approximation. **90c:58047**
Dynamical systems ★ Dynamical systems. IV. **90j:58039**
Dynamical systems and turbulence ★ Динамические системы и турбулентность. (Russian) [Dynamical systems and turbulence] **90m:58058**
Dynamical systems: a renewal of mechanism ★ Dynamical systems: a renewal of mechanism. **90i:58038**
Dynamics reported ★ Dynamics reported. Vol. 2. **90a:58041**
Encyclopaedia of Mathematical Sciences ★ Dynamical systems. IV. **90j:58039**
Marseille-Luminy ★ Attractors, inertial manifolds and their approximation. **90c:58047**
Medellín ★ Methods and applications of nonlinear dynamics. **90f:58049**
Meeting:
Number Theory and Dynamical Systems ★ Number theory and dynamical systems. **90j:58040**
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Number theory and dynamical systems ★ Number theory and dynamical systems. **90j:58040**
Study of dynamical systems ★ Rikigakakei no kenkyū. (Japanese) [The study of dynamical systems] **90h:58025**
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Study of Dynamical Systems ★ Rikigakakei no kenkyū. (Japanese) [The study of dynamical systems] **90h:58025**
York ★ Number theory and dynamical systems. **90j:58040**

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(Conley, Charles C.) *see* **Charles Conley memorial volume, 90c:58001**
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(Gerok, Wolfgang) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Gibian, Heinz) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Guo, Zhong Heng) *see* **Modern mathematics and mechanics, 90k:58001**
(Haken, H.) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(zur Hausen, Harald) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Herman, M.-R.) *see* **Charles Conley memorial volume, 90c:58001**
(McGehee, Richard) *see* **Charles Conley memorial volume, 90c:58001**
(Möbius, Peter) *see* **Arnol′d, V. I., 90e:58001**
(Moser, Jürgen K.) *see* **Charles Conley memorial volume, 90c:58001**
(Nachtigall, Werner) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Nöth, Heinrich) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Otrokov, N. F.) *see* **Differential and integral equations, 90d:34002**
(Roesky, Herbert W.) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
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Conference:
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Gesellschaft Deutscher Naturforscher und Ärtze ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
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58F05 Hamiltonian and Lagrangian systems; symplectic geometry [see also 70Hxx]

Abramov, Viktor Anatol′evich Formal geometry and a BRST-invariant Lagrangian. (Russian. English summary) **90k:58058**
Adams, Malcolm (*with* Ratiu, T.) The three-point vortex problem: commutative and noncommutative integrability. **90e:58041**
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Ambrosetti, A. (*with* Coti Zelati, Vittorio) Noncollision orbits for a class of Keplerian-like potentials. (French summary) **90a:58043**
Arik, M. (*with* Neyzi, Fahrünisa; Nutku, Yavuz; Olver, Peter J.; Verosky, John M.) Multi-Hamiltonian structure of the Born-Infeld equation. **90b:58059**
Arino, O. (*with* Chérif, A.) Forced oscillations for Hamiltonian systems. **90m:58059**
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Arnaud, Marie-Claude Sur les points fixes des difféomorphismes exacts symplectiques de $\mathbf{T}^n \times \mathbf{R}^n$. (English summary) [Fixed points of exact symplectic diffeomorphisms of $\mathbf{T}^n \times \mathbf{R}^n$] **90k:58059**
Arnol′d, V. I. On some problems in symplectic topology. **90d:58036**
— Remarks on quasicrystallic symmetries. **90b:58060**
Artykov, A. R. (*with* Rabinkov, G. A.) Singularities of solutions of Hamiltonian systems. (Russian) **90e:58042**
Athorne, C. Local Hamiltonian structures of multicomponent KdV equations. **90b:58061**
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Benci, Vieri (*with* Hofer, H.; Rabinowitz, Paul H.) A remark on a priori bounds and existence for periodic solutions of Hamiltonian systems. **90f:58052**
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Benenti, S. (*with* Tulczyjew, W. M.) Canonical affine bundles. (Italian summary) **90m:58061**
Beris, A. N. (*with* Edwards, B. J.) Poisson bracket formulation of incompressible flow equations in continuum mechanics. **90j:58041**
Berishvili, G. D. Symplectic structure on a Grassmann bundle. **90f:58054**
Bertotti, Maria Letizia Multiplicity of kT-periodic solutions near a given T-periodic solution for nonlinear Hamiltonian systems. **90c:58048**
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Clarke, F. H. Action principles and periodic orbits. **90c:58050**

Collas, Peter Metamorphosis from the viewpoint of differential geometry. **90c:58051**

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La Grande Motte ★ Géométrie symplectique et mécanique. (French) [Symplectic and mechanical geometry] **90m:58002**
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Denker, Manfred (*with* Seck, Christoph) A short proof of a theorem of Ruelle. **90m:58101**
Devaney, Robert L. (*with* Keen, Linda) Dynamics of maps with constant Schwarzian derivative. **90b:58122**
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Harrison, Jenny C. Dynamics on Ahlfors quasi-circles. **90m:58103**
He, Da Ren (*with* Wang, Da Kai; Shi, Kang Jie; Yang, Cheng Hai; Chao, Lai Yuan; Zhang, Ji Yue) Critical behavior of dynamical systems described by the inverse circle map. **90b:58123**
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Meeting:
  Dynamical Chaos ★ Dynamical chaos. **90d:58110a**
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Ablowitz, M. J. *see* **Herbst, B. M., 90e:35142**
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Afeyan, Bedros *see* **Umberger, David K.; et al., 90e:70029**
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Gerber, Marlies *see* **Burns, Keith, 90e:58126**
Greenberg, Peter (*with* Porter, Michael) A generalization of geodesic flow. **90c:58141**
Gutkin, E. (*with* Katok, A.) Weakly mixing billiards. **90g:58098**
Katok, A. *see* **Gutkin, E., 90g:58098** *and* **Feres, Renato, 90k:58167**
Knieper, Gerhard (*with* Weiss, Howard N.) Regularity of entropy for geodesic flows. **90m:58162**
— (*with* Weiss, Howard N.) Regularity of measure theoretic entropy for geodesic flows of negative curvature. I. **90e:58128**
Ledrappier, F. Mesure harmonique et mesure de Bowen-Margulis. [Harmonic measure and Bowen-Margulis measure] (*see* **90m:58223**)
Manabe, Shojiro (*with* Ochi, Yoko) The central limit theorem for current-valued processes induced by geodesic flows. **90f:58140**
(**Moeckel, R.**) *see* **Nakanishi, Toshihiro, 90k:58168**
Montesinos, Angel J. Sur la conjugaison différentielle des flots géodésiques des surfaces sans points conjugués. (English summary) [On the differential conjugacy between geodesic flows on surfaces without conjugate points] **90d:58121**
Nakanishi, Toshihiro A remark on R. Moeckel's paper: "Geodesics on modular surfaces and continued fractions" [Ergodic Theory Dynamical Systems **2** (1982), no. 1, 69–83; MR 84k:58176]. **90k:58168**
Ochi, Yoko *see* **Manabe, Shojiro, 90f:58140**
Porter, Michael *see* **Greenberg, Peter, 90c:58141**
Spatzier, R. J. *see* **Flaminio, L., 90d:58120**
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Taĭmanov, I. A. Topological properties of integrable geodesic flows. (Russian) **90d:58122**
Tomaschitz, R. On the calculation of quantum mechanical ground states from classical geodesic motion on certain spaces of constant negative curvature. **90k:58169**
Walczak, Paweł G. Dynamics of the geodesic flow of a foliation. **90g:58099**
Weiss, Howard N. *see* **Knieper, Gerhard, 90e:58128** *and* **90m:58162**
Wojtkowski, Maciej P. *see* **Ballmann, Werner, 90k:58165**

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Ahdout, Shahla Fanning curves of Lagrangian manifolds and geodesic flows. **90i:58039**
Avez, A. Ergodic theory and Sobolev spaces. **90k:58107**
Birmingham, Danny (*with* Rakowski, Mark; Thompson, George) BRST quantization of topological field theories. **90d:81086**
Brooks, Robert Designer metrics on Riemannian manifolds. **90k:53070**
Burns, Keith (*with* Gerber, Marlies) Continuous invariant cone families and ergodicity of flows in dimension three. **90e:58125**
Carfora, M. (*with* Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. **90m:53054**
Christophoridou, Chryssi Geodätischer Fluß auf kompakten Riemannschen Mannigfaltigkeiten, die eine Metrik vom Anosov Typ tragen können. (English and Serbo-Croatian summaries) [Geodesic flow on compact Riemannian manifolds that can support a metric of Anosov type] **90h:53048**
Farrell, F. T. (*with* Jones, Lowell Edwin) A topological analogue of Mostow's rigidity theorem. **90h:57023a**

— (*with* Jones, Lowell Edwin) Compact negatively curved manifolds (of dim $\neq 3, 4$) are topologically rigid. **90h:57023b**
— (*with* Jones, Lowell Edwin) Rigidity and other topological aspects of compact nonpositively curved manifolds. **90h:57023c**
Fomenko, A. T. ★ Symplectic geometry. **90k:58065**
Fried, David Counting circles. **90c:58157**
Gagnon, Langis Equations of motion and wave functions in spherical coordinates for an integrable Hamiltonian system. **90c:58072**
Gerber, Marlies *see* **Burns, Keith, 90e:58125**
Gershkovich, V. Ya. *see* **Vershik, A. M., 90b:58008a** *and* **90b:58008b**
Gluck, Herman Geodesics in the unit tangent bundle of a round sphere. **90b:53051**
Innami, Nobuhiro Manifolds without conjugate points and with integral curvature zero. **90e:53054**
Isenberg, James *see* **Carfora, M.; et al., 90m:53054**
Jackson, Martin *see* **Carfora, M.; et al., 90m:53054**
Johnson, David Lewis Volumes of flows. **90b:53047**
Jones, Lowell Edwin *see* **Farrell, F. T., 90h:57023a; 90h:57023b** *and* **90h:57023c**
Jormakka, Jorma Quasiregular mappings from $\mathbf{R}^n$ to closed orientable n-manifolds. **90e:30024**
Katok, A. (*with* Knieper, Gerhard; Pollicott, Mark; Weiss, Howard N.) Differentiability and analyticity of topological entropy for Anosov and geodesic flows. **90i:58150**
Knieper, Gerhard *see* **Katok, A.; et al., 90i:58150**
Krámli, A. (*with* Simányi, Nándor; Szász, Domokos) Dispersing billiards without focal points on surfaces are ergodic. **90m:58116**
Linnér, Anders Some properties of the curve straightening flow in the plane. **90g:58022**
Pollicott, Mark Analytic extensions of the zeta functions for surfaces of variable negative curvature. **90b:58148**
— Kleinian groups, Laplacian on forms and currents at infinity. **90m:58217**
— *see also* **Katok, A.; et al., 90i:58150**
Rakowski, Mark *see* **Birmingham, Danny; et al., 90d:81086**
Rovenskiĭ, V. Yu. Geodesic foliations on the three-dimensional sphere. (Russian) (*see* **90m:00032**)
Simányi, Nándor *see* **Krámli, A.; et al., 90m:58116**
Szász, Domokos *see* **Krámli, A.; et al., 90m:58116**
Taylor, Thomas J. S. Some aspects of differential geometry associated with hypoelliptic second order operators. **90m:58225**
Thompson, George *see* **Birmingham, Danny; et al., 90d:81086**
Ukai, Tetsuo The visibility axiom on a Hadamard manifold whose geodesic flow is of Anosov type. **90e:53065**
Vershik, A. M. (*with* Gershkovich, V. Ya.) Geometry of the nonholonomic sphere of three-dimensional Lie groups. (Russian) **90b:58008a**
— (*with* Gershkovich, V. Ya.) The geometry of the nonholonomic sphere for three-dimensional Lie group. **90b:58008b**
(Wadhwa, R. S.) *see* **Fomenko, A. T., 90k:58065**
Weiss, Howard N. The geometry of measured geodesic laminations and measured train tracks. **90j:57010**
— *see also* **Katok, A.; et al., 90i:58150**
Witte, Dave Rigidity of horospherical foliations. **90i:58092**

58F18 Relations with foliations

Bennequin, Daniel Links and Pfaffian equations. **90i:58152**
Camacho, César (*with* Lins Neto, A.; Sad, P.) Minimal sets of foliations on complex projective spaces. **90e:58129**
— (*with* Cano, Felipe; Sad, P.) Absolutely isolated singularities of holomorphic vector fields. **90i:58153**
Cano, Felipe *see* **Camacho, César; et al., 90i:58153**
Carrière, Yves Variations sur les flots riemanniens. [Variations on Riemannian flows] (*see* **90m:58221**)
Gasull, Armengol (*with* Llibre, J.) On the nonsingular quadratic differential equations in the plane. **90f:58141**
Gómez-Mont, Xavier (*with* Muciño, J.) Persistent cycles for holomorphic foliations having a meromorphic first integral. **90b:58220**
Lins Neto, A. Algebraic solutions of polynomial differential equations and foliations in dimension two. **90c:58142**
— *see also* **Camacho, César; et al., 90e:58129**
Llibre, J. *see* **Gasull, Armengol, 90f:58141**
López de Medrano, Santiago The space of Siegel leaves of a holomorphic vector field. **90c:58143**
Matsumoto, Shigenori On discrete group actions on the unit circle. **90d:58123**
(Mishustin, M. B.) *see* **Bennequin, Daniel, 90i:58152**
Mosher, Lee Equivariant spectral decomposition for flows with a Z-action. **90j:58117**
Muciño, J. *see* **Gómez-Mont, Xavier, 90b:58220**
Rovenskiĭ, V. Yu. Geodesic foliations on the three-dimensional sphere. (Russian) (*see* **90m:00032**)
Sad, P. *see* **Camacho, César; et al., 90e:58129** *and* **90i:58153**
Veech, William A. Quasiminimal invariants for foliations of orientable closed surfaces. **90i:58154**

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Arca, Giuseppe Espaces-temps symplectiques admettant un double feuilletage lagrangien transverse. [Symplectic space-times with a transversal Lagrangian double foliation] **90m:53074**
Arnoux, Pierre Ergodicité générique des billards polygonaux (d'après Kerckhoff, Masur, Smillie). [Generic ergodicity of polygonal billiards (following Kerckhoff, Masur, Smillie)] **90c:58097**
Aroca Hernández-Ros, José M. Results of F. Cano on Thom's conjecture. (Spanish. English summary) **90c:57020**
Babbitt, D. G. (*with* Varadarajan, V. S.) Local isoformal deformation theory for meromorphic differential equations near an irregular singularity. **90h:32051**
Bajaj, A. K. (*with* Johnson, J. M.) Asymptotic techniques and complex dynamics in weakly nonlinear forced mechanical systems. **90m:70023**
Bangert, V. On minimal laminations of the torus. (French summary) **90e:58021**
Banyaga, Augustin A note on Weinstein's conjecture. **90m:58170**
Camacho, César (*with* Sad, P.) ★ Pontos singulares de equações diferenciais analíticas. (Portuguese) [Singular points of analytic differential equations] **90a:58126**
— Quadratic forms and holomorphic foliations on singular surfaces. **90b:32056**
Cano, Felipe ★ Desingularization strategies for three-dimensional vector fields. **90i:32020a**
— ★ Desingularization strategies for three-dimensional vector fields. **90i:32020b**
— Dicritical singular foliations. (Spanish) **90k:32047**
Cantwell, John (*with* Conlon, Lawrence) Foliations and subshifts. **90c:57021**
— (*with* Conlon, Lawrence) Leafwise hyperbolicity of proper foliations. **90f:57035**
Cerveau, Dominique Feuilletages réglés. (English summary) [Ruled foliations] **90a:32038**
Conlon, Lawrence *see* **Cantwell, John, 90c:57021** *and* **90f:57035**
Donaldson, S. (*with* Friedman, Robert David) Connected sums of self-dual manifolds and deformations of singular spaces. **90e:32027**
Franks, John (*with* Misiurewicz, M.) Rotation sets of toral flows. **90i:58091**
Friedman, Robert David *see* **Donaldson, S., 90e:32027**
Gallego, E. (*with* Gualandri, L.; Hector, Gilbert; Reventós, A.) Groupoïdes riemanniens. (English summary) [Riemannian groupoids] **90m:57022**
Ghys, Étienne (*with* Sergiescu, Vlad) Sur un groupe remarquable de difféomorphismes du cercle. [On a remarkable group of diffeomorphisms of the circle] **90c:57035**
— Codimension one Anosov flows and suspensions. **90a:58141**
— *see also* **Hector, Gilbert; et al., 90g:57024**
Gómez-Mont, Xavier (*with* Sundararaman, Duraiswami) Remarks on the versal families of deformations of holomorphic and transversely holomorphic foliations. **90k:32066**
— (*with* Kempf, George R.) Stability of meromorphic vector fields in projective spaces. **90d:14012**
Gualandri, L. *see* **Gallego, E.; et al., 90m:57022**
Hector, Gilbert (*with* Ghys, Étienne; Moriyama, Yoichi) On codimension one nilfoliations and a theorem of Malcev. **90g:57024**
— *see also* **Gallego, E.; et al., 90m:57022**
Ikegami, Gikō Singular perturbations in foliations. **90g:58113**
Johnson, J. M. *see* **Bajaj, A. K., 90m:70023**
Kempf, George R. *see* **Gómez-Mont, Xavier, 90d:14012**
Knobloch, H. W. Steuerbarkeit als zentraler Begriff beim Aufbau der Kontrolltheorie. [Controllability as a central concept in the construction of control theory] **90j:93016**
Maniscalco, I. (*with* Portolano, A.) The space of closed simple curves and measured foliations on noncompact orientable surfaces. (Italian. English summary) **90e:57038**
McCarthy, John David (*with* Papadopoulos, Athanase) Dynamics on Thurston's sphere of projective measured foliations. **90e:57054**
Misiurewicz, M. *see* **Franks, John, 90i:58091**
Moriyama, Yoichi *see* **Hector, Gilbert; et al., 90g:57024**
Moser, Jürgen K. A stability theorem for minimal foliations on a torus. **90h:58018**
— Minimal foliations on a torus. **90f:58153**
Moussu, R. Développement asymptotique de l'application retour d'un polycycle. [Asymptotic expansion of the return map of a polycycle] **90d:58126**
Papadopoulos, Athanase *see* **McCarthy, John David, 90e:57054**
Paternain, Miguel Expansive flows and the fundamental group. **90m:58160**
Pereira da Silva, José António Feuilletages contravariants à feuilles orientables. (English summary) [Contravariant foliations with orientable leaves] **90j:57021**
Portolano, A. *see* **Maniscalco, I., 90e:57038**
Pugh, Charles (*with* Shub, Michael) Ergodic attractors. **90h:58057**
Reiffen, Hans-Jörg Leafspaces and integrability. **90c:32014**
Reventós, A. *see* **Gallego, E.; et al., 90m:57022**
Sad, P. *see* **Camacho, César, 90a:58126**
Sergiescu, Vlad *see* **Ghys, Étienne, 90c:57035**
Shub, Michael *see* **Pugh, Charles, 90h:58057**
Sundararaman, Duraiswami *see* **Gómez-Mont, Xavier, 90k:32066**
Terent′ev, A. M. Conditions for the existence of an integral of Darboux type in a neighborhood of a complex singular point. (Russian) **90e:34008**
Varadarajan, V. S. *see* **Babbitt, D. G., 90h:32051**
Walczak, Paweł G. Dynamics of the geodesic flow of a foliation. **90g:58099**
Witte, Dave Topological equivalence of foliations of homogeneous spaces. **90d:22012**
Wojciechowski, S. A new test for integrability of Riccati systems of equations. **90d:58066**
Wolak, Robert Transverse completeness of foliated systems of ordinary differential equations. **90m:57024**
Ye, Yan Qian Qualitative theory of ODEs in the complex domain. (Chinese) **90d:34001**
Yue, Xiu Ying The behavior of vector fields $(P_3(x,y), Q_3(x,y))$ on the equator of $\mathbf{RP}^2$. (Chinese. English summary) **90c:57018**

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58F19 Eigenvalue and spectral problems

Arkad′ev, V. A. (*with* Pogrebkov, A. K.; Polivanov, M. K.) Expansions in squares, symplectic and Poisson structures associated with a Sturm-Liouville problem. I. (Russian. English summary) **90h:58065**
— (*with* Pogrebkov, A. K.; Polivanov, M. K.) Expansions in squares, symplectic and Poisson structures associated with a Sturm-Liouville problem. II. **90h:58066**
Beals, Richard (*with* Tenenblat, Keti) Inverse scattering and the Bäcklund transformation for the generalized wave and generalized sine-Gordon equations. **90m:58163**
Chen, Hsing Hen (*with* Lin, J. E.) Integrability of nonlinear wave equations. **90j:58118**
Choi, M. Y. *see* **Kim, Yong-Jihn; et al., 90c:58144**
Da Silva Menezes, Maria Lucia Infinite genus curves with hyperelliptic ends. **90i:58155**
Edelson, Allan L. (*with* Pera, Maria Patrizia) Connected branches of asymptotically equivalent solutions to nonlinear eigenvalue problems. (Italian summary) **90f:58142**
Kim, Yong-Jihn (*with* Choi, M. Y.; Lee, M. H.) Anomaly and singular continuous spectrum in a one-dimensional incommensurate system. **90c:58144**

Krichever, I. M. Spectral theory of two-dimensional periodic operators and its applications. **90j:58119**

Lee, M. H. *see* **Kim, Yong-Jihn; et al., 90c:58144**

Lin, J. E. *see* **Chen, Hsing Hen, 90j:58118**

McKean, H. P. Geometry of KdV. V. Scattering from the Grassmannian viewpoint. **90k:58170**

Novitskiĭ, M. V. Two-sided estimates for polynomial conservation laws for the Korteweg-de Vries equation and their applications. (Russian) **90i:58156**

Pera, Maria Patrizia *see* **Edelson, Allan L., 90f:58142**

Pogrebkov, A. K. *see* **Arkad′ev, V. A.; et al., 90h:58065** *and* **90h:58066**

Polivanov, M. K. *see* **Arkad′ev, V. A.; et al., 90h:58065** *and* **90h:58066**

Schilling, Randolph James A systematic approach to the soliton equations of a discrete eigenvalue problem. **90k:58171**

Shmoĭsh, M. E. Nonisospectral deformations of Jacobian matrices, and nonlinear difference equations. **90i:58157**

Tenenblat, Keti *see* **Beals, Richard, 90m:58163**

Zhivkov, A. I. Isospectral classes of matrix finite-gap operators with symmetries. **90i:58158**

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Aurich, R. (*with* Steiner, F.) Periodic-orbit sum rules for the Hadamard-Gutzwiller model. **90k:58164**

Beals, Richard (*with* Deift, Percy A.; Tomei, C.) Scattering on the line—an overview. **90g:34024**

Bednarz, Bernard F. Geometric methods and the gauge structure of Berry's phase. **90j:81063**

Belokolos, E. D. (*with* Ènol′skiĭ, V. Z.) Verdier's elliptic solitons and the Weierstrass reduction theory. **90h:14059**

Bene, J. Multifractal properties of a class of nonnatural measures as an eigenvalue problem. **90a:28010**

Bengel, Gunter Linearization and singular partial differential equations. **90j:35061**

Berman, G. P. (*with* Izraĭlev, F. M.; Kolovskiĭ, A. R.; Vlasova, O. F.) Dynamical and spectral properties of interacting quantum nonlinear resonances. **90c:81028**

Bogoslovskiĭ, B. P. (*with* Makar′ina, I. A.) Solutions of some linear differential equations on infinite-sheeted Riemann surfaces. (Russian) **90a:34068**

Boiti, M. Multidimensional spectral transform. **90h:35202**

Cantrell, Robert Stephen Global preservation of nodal structure in coupled systems of nonlinear Sturm-Liouville boundary value problems. **90i:34037**

Craig, Walter Trace formulae and singular spectra for the Schrödinger operator. (*see* **90i:35002**)

— The trace formula for Schrödinger operators on the line. **90m:47063**

Deift, Percy A. *see* **Beals, Richard; et al., 90g:34024**

Elsner, L. *see* **Watkins, D. S., 90e:15010** *and* **90m:65064**

Ènol′skiĭ, V. Z. *see* **Belokolos, E. D., 90h:14059**

Gel′fand, I. M. (*with* Zakharevich, I. S.) Spectral theory of a pencil of third-order skew-symmetric differential operators on S^1. **90i:47048**

Giler, S. (*with* Kosiński, P.; Szymanowski, Lech) The geometrical properties of Berry's phase. **90j:81067**

González-López, Artemio On the linearization of second-order ordinary differential equations. **90d:34073**

Grünbaum, F. A. Differential equations in the spectral parameter: the higher order case. **90g:35125**

Gutkin, E. (*with* Johnson, Russell) Intersection theory for linear eigenvalue problems. **90i:58016**

Hall, Richard L. Spectral geometry of power-law potentials in quantum mechanics. **90c:81039**

Izraĭlev, F. M. *see* **Berman, G. P.; et al., 90c:81028**

Johnson, Russell *see* **Gutkin, E., 90i:58016**

Klarsfeld, S. (*with* Oteo, J. A.) The Baker-Campbell-Hausdorff formula and the convergence of the Magnus expansion. **90j:81070**

Kolovskiĭ, A. R. *see* **Berman, G. P.; et al., 90c:81028**

Kosiński, P. *see* **Giler, S.; et al., 90j:81067**

Levitan, B. M. (*with* Sargsyan, I. S.) ★ Операторы Штурма–Лиувилля и Дирака. (Russian) [Sturm-Liouville and Dirac operators] **90c:34028**

Li, Chih Hao Analytic properties of a Zakharov-Shabat inverse scattering problem. II. **90i:34039**

Makar′ina, I. A. *see* **Bogoslovskiĭ, B. P., 90a:34068**

Martinez, José Chan Holonomy structure of parameter manifolds. **90m:58076**

Mateos Guilarte, Juan Stationary phase approximation and quantum soliton families. **90c:81205**

Natanzon, S. M. Prymians of real curves and their applications to the effectivization of Schrödinger operators. **90i:14031**

Oh, Y.-G. Existence of semiclassical bound states of nonlinear Schrödinger equations with potentials of the class $(V)_a$. **90d:35063a**

— Correction to: "Existence of semiclassical bound states of nonlinear Schrödinger equations with potentials of the class $(V)_a$". **90d:35063b**

Oteo, J. A. *see* **Klarsfeld, S., 90j:81070**

Papadimitrakis, M. The Schrödinger-Hill equation $-y''(x)+q(x)y(x)=\mu\cdot y(x)$ on odd potentials q. **90e:34047**

Samovol, V. S. Smooth linearization of systems of differential equations in a neighborhood of a singular saddle point. **90d:34075**

Sargsyan, I. S. *see* **Levitan, B. M., 90c:34028**

Schilling, Randolph James Generalizations of the Neumann system. A curve theoretical approach. II. **90g:58050**

Shudo, Akira Algorithmic complexity of the eigenvalue sequence of a nonintegrable Hamiltonian system. **90h:81047**

Steiner, F. *see* **Aurich, R., 90k:58164**

Szymanowski, Lech *see* **Giler, S.; et al., 90j:81067**

Takahashi, Yōichirō Power spectrum and Fredholm determinant related to intermittent chaos. **90c:58120**

Tomei, C. *see* **Beals, Richard; et al., 90g:34024**

Tracy, Craig A. Monodromy preserving deformation theory of the Klein-Gordon equation in the hyperbolic plane. **90i:35268**

Veselov, A. P. Integrable systems with discrete time, and difference operators. **90a:58081**

Vlasova, O. F. *see* **Berman, G. P.; et al., 90c:81028**

Watkins, D. S. (*with* Elsner, L.) Self-similar flows. **90e:15010**

— (*with* Elsner, L.) Self-equivalent flows associated with the singular value decomposition. **90m:65064**

Wedig, W. Lyapunov Exponent und Rotationszahl der stochastischen Eigenwerttheorie. [Lyapunov exponent and rotation number of stochastic eigenvalue theory] (*see* **90d:70008**)

Zakharevich, I. S. *see* **Gel′fand, I. M., 90i:47048**

58F20 Periodic points and zeta functions

Alsedà i Soler, Lluís (*with* Llibre, J.; Misiurewicz, M.) Periodic orbits of maps of Y. **90c:58145**

Bae, Jong Sook (*with* Yang, Seung Kab) ω-limit sets for maps of the circle. **90m:58164**

Barkmeijer, Jan The speed interval: a rotation algorithm for endomorphisms of the circle. **90b:58221**

Boyarsky, Abraham *see* **Scarowsky, Manny, 90h:58067**

Boyland, Philip L. Rotation sets and Morse decompositions in twist maps. **90c:58146**

Carvalho, L. A. V. On an extension of Sarkovskiĭ's order. **90b:58222**

Coven, Ethan M. (*with* Mulvey, Irene) The Barge-Martin decomposition theorem for pointwise nonwandering maps of the interval. **90c:58147**

Ding, Ming Zhou *see* **Zeng, Wan Zhen; et al., 90e:58130**

Feng, Qing Fu ζ-functions of Axiom A self-covering mappings. (Chinese) **90f:58143**

Franks, John Recurrence and fixed points of surface homeomorphisms. **90d:58124**

Harrison, Jenny C. Denjoy fractals. **90c:58148**

Hiraide, K. Expansive homeomorphisms with the pseudo-orbit tracing property of n-tori. **90a:58146**

Janková, Katarína (*with* Smítal, J.) A theorem of Šarkovskiĭ characterizing continuous maps of zero topological entropy. (Russian summary) **90m:58165**

Li, Jia Nan *see* **Zeng, Wan Zhen; et al., 90e:58130**

Llibre, J. *see* **Alsedà i Soler, Lluís; et al., 90c:58145**

Matsuoka, Takashi[1] The number of periodic orbits of smooth maps. **90m:58166**

Matsuotra, Takashi[1] The number of periodic points of smooth maps. **90g:58100**

Misiurewicz, M. *see* **Alsedà i Soler, Lluís; et al., 90c:58145**

Mulvey, Irene *see* **Coven, Ethan M., 90c:58147**

Ryabova, A. V. On the existence of periodic points in a neighborhood of a homoclinic point in the critical case. **90j:58120**

Scarowsky, Manny (*with* Boyarsky, Abraham) Periodic orbits of maps with an infinite number of partition points. **90h:58067**

Smítal, J. *see* **Janková, Katarína, 90m:58165**

Snoha, Ľubomír Characterization of potentially minimal periodic orbits of continuous mappings of an interval. (Russian and Slovak summaries) **90g:58101**

Tanikawa, Kiyotaka (*with* Yamaguchi, Yoshihiro) Coexistence of symmetric periodic points in the standard map. **90g:58102**

Wang, Kun Jian A note on chaotic maps. **90f:58144**

Xiong, Jin Cheng A simple proof of a theorem of Misiurewicz. (Chinese. English summary) **90j:58121**

Yamaguchi, Yoshihiro *see* **Tanikawa, Kiyotaka, 90g:58102**

Yang, Run Sheng Nonwandering sets of continuous self-maps of the circle. **90k:58172**

Yang, Seung Kab *see* **Bae, Jong Sook, 90m:58164**

Ye, Xiang Dong The existence of minimal-periodic orbits of mappings from an interval to itself. (Chinese) **90c:58149**

Zeng, Wan Zhen (*with* Ding, Ming Zhou; Li, Jia Nan) Symbolic dynamics for one-dimensional mappings with multiple critical points. **90e:58130**

Zhu, De Ming Homology zeta functions and Lefschetz numbers. **90k:58173**

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Barge, Marcy (*with* Swanson, Richard) Pseudo-orbits and topological entropy. **90i:58086**

Bogatyĭ, S. A. Periodic points of a mapping of a tree. (Russian) **90m:54050**

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Cvitanović, Predrag (*with* Eckhardt, Bruno) Periodic-orbit quantization of chaotic systems. **90k:58128**

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Elizalde, E. Multiple zeta functions with arbitrary exponents. **90m:11130**

Erëmenko, A. È. (*with* Levin, Genadiĭ Mironovich) Periodic points of polynomials. (Russian) **90m:58102**

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— Cyclic resultants of reciprocal polynomials. **90h:57004**

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Habets, Patrick (*with* Sanchez, Luis) Periodic solutions of some Liénard equations with singularities. **90k:34049**

Heath, Philip (*with* Piccinini, Renzo A.; You, Cheng Ye) Nielsen-type numbers for periodic points. I. **90m:55004**

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Messano, B. On the successive approximations method and on the iterative process $x_{n+1} = f(x_n, x_{n-1})$. (Italian summary) **90e:65081**

Milnor, John (*with* Thurston, W. P.) On iterated maps of the interval. **90a:58083**

Moscovici, Henri (*with* Stanton, Robert J.) Eta invariants of Dirac operators on locally symmetric manifolds. **90b:58252**

Mrozek, Marian The fixed point index of a translation operator of a semiflow. **90e:58137**

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Parry, William Equilibrium states and weighted uniform distribution of closed orbits. **90a:58095**

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Petek, Peter On the iterative solutions of quadratic equations. (Slovenian summary) **90j:58068**

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— Kleinian groups, Laplacian on forms and currents at infinity. **90m:58217**

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Winkelnkemper, H. E. Fixed points with rotation as obstructions to topological transitivity. I. **90f:54070**

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Aicardi, F. On the existence of limit cycles in motion field. **90j:58122**

Anosov, D. V. Infinite curves on the Klein bottle. **90f:58145**

Artes, J. C. *see* **Ye, Yan Qian; et al., 90j:58124**

Basarab-Horwath, P. (*with* Lloyd, N. G.) Co-existing fine foci and bifurcating limit cycles. **90b:58223**

Bryuno, A. D. ★ Local methods in nonlinear differential equations. **90c:58150**

Carbonell, Marc (*with* Llibre, J.) Chordal cubic systems. **90j:58123**

Chaperon, Marc Invariant manifolds and a preparation lemma for local holomorphic flows and actions. **90c:58151**

Chen, Yi Yuan[1] The number of limit cycles of the plane autonomous systems. **90h:58068**

Christopher, Colin Quadratic systems having a parabola as an integral curve. **90f:58146**

Cima, Anna (*with* Llibre, J.) Configurations of fans and nests of limit cycles for polynomial vector fields in the plane. **90m:58167**

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Feng, Bei Ye Periodic travelling-wave solution of Brusselator. **90e:58131**

Gao, Wei Xin Globally semistable cubic systems. (Chinese) **90i:58159**

Golitsyna, M. G. Improper complex cycles of quadratic vector fields on the plane. (Russian) **90g:58103**

Guckenheimer, John (*with* Rand, Richard H.; Schlomiuk, Dana) Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. **90g:58104**

Hartley, Tom T. The extended Poincaré-Bendixson theorem. **90f:58147**

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Joyal, Pierre (*with* Rousseau, Christiane) Saddle quantities and applications. **90b:58225**

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Malyshev, Yu. V. (*with* Zakharov, V. P.) Investigation of the existence and convexity of limit cycles by the method of generalized Lyapunov functions. **90d:58125**

Mazzi, Luisa (*with* Sabatini, Marco) A characterization of centres via first integrals. **90f:58148**

Medvedeva, N. B. The first focal value for a complex monodromy singular point: the general nondegenerate case. (Russian) **90k:58174**

Moussu, R. Développement asymptotique de l'application retour d'un polycycle. [Asymptotic expansion of the return map of a polycycle] **90d:58126**

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Qin, Yuan Xun On surfaces defined by ordinary differential equations. II. A new approach to Hilbert's 16th problem. **90m:58168**

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— Cyclicité finie des lacets et des points cuspidaux. (English summary) [Finite cyclicity of loops and cusps] **90m:58169**

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Basov, V. V. Divergence of normalizing transformations in the case of real structurally unstable focus. **90g:34040**

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— (*with* Li, Cheng Zhi[1]; Wang, Duo) Erratum: "Uniqueness of periodic orbits of some vector fields with codimension two singularities". **90m:58147b**

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Fan, Xiao Hong (*with* Johnson, C. D.) Eliminating limit cycles by using a disturbance accommodating control method. **90g:93056**

Flessas, George P. New exact solutions of the complex Lorenz equations. **90a:34014**

Floer, Andreas (*with* Zehnder, Eduard) The equivariant Conley index and bifurcations of periodic solutions of Hamiltonian systems. **90a:58047**

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Jakubczyk, B. (*with* Tchoń, K.) Singularities and normal forms of observed dynamics. **90g:93016**

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— Global structure of trajectories for a class of quadratic systems. **90j:34049**

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— (*with* Giannoni, F.) A new proof of the existence of a brake orbit. **90i:58162**

— (*with* Giannoni, F.) Periodic bounce trajectories with a low number of bounce points. (French summary) **90i:58161**

— (*with* Giannoni, F.) Periodic solutions of prescribed energy for a class of Hamiltonian systems with singular potentials. **90k:58176**

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— (*with* Fisher, David C.; Martelli, Mario) Minimal periods of discrete and smooth orbits. **90b:58229**

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Contopoulos, G. Nonuniqueness of families of periodic solutions in a four-dimensional mapping. **90i:58163**

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— (*with* Matzeu, Michele) Some results on periodic solutions of superquadratic Hamiltonian systems. **90m:58173**

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58Gxx Partial differential equations on manifolds; differential operators [see also 35–XX]

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58G05 Differential complexes [see also 35Nxx]; elliptic complexes

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58G07 Relations with hyperfunctions

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Kawai, Takahiro (*with* Takei, Yoshitsugu) On the global existence of real analytic solutions of systems of linear differential equations. **90b:58248**

— Systems of linear differential equations of infinite order: an aspect of infinite analysis. **90j:58139**

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— (*with* Zampieri, Giuseppe) Microfunctions at the boundary and mild microfunctions. **90e:58145**

— Cycles lagrangiens, fonctions constructibles et applications. [Lagrangian cycles, constructible functions and applications] **90j:58140**

Sibuya, Y. *see* **Ramis, J.-P., 90k:58209**

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— (*with* Zelevinskiĭ, A. V.; Kapranov, M. M.) Projective-dual varieties and hyperdeterminants. **90m:14045**

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58G10 Index theory and fixed point theorems [see also 19K56, 46L80, 47Hxx]

Anné, Colette (*with* Besson, Gérard) Sur le théorème de l'indice d'après Ezra Getzler. [On the index theorem, following Ezra Getzler] **90m:58199**
Arai, Asao Path integral representation of the index of Kähler-Dirac operators on an infinite-dimensional manifold. **90e:58146**
Besson, Gérard *see* **Anné, Colette, 90m:58199**
Bismut, Jean-Marie Formules de Lichnerowicz et théorème de l'indice. [Lichnerowicz formulas and the index theorem] **90f:58165**
Bismut, Jean-Michel Index theorem and the heat equation. **90a:58165**
— Filtering equation, equivariant cohomology and the Chern character. **90c:58172**
— Le théorème d'indice local pour des variétés non kählériennes. (English summary) [The local index theorem for non-Kähler manifolds] **90b:58250**
— Complexe de Koszul, oscillateur harmonique et classe de Todd. (English summary) [Koszul complexes, harmonic oscillators and the Todd class] **90e:58147**
Boutet de Monvel, L. Le théorème de l'indice relatif. [The relative index theorem] **90j:58141**
Douglas, R. G. Another look at real-valued index theory. **90d:58146**
— Elliptic invariants for differential operators. **90b:58251**
Fedosov, B. V. The index theorem in the algebra of quantum observables. **90g:58123**
Futaki, Akito (*with* Tsuboi, Kenji) On some integral invariants, Lefschetz numbers and induction maps. **90e:58148**
Getzler, Ezra (*with* Jones, John D. S.; Petrack, Scott B.) Loop spaces, cyclic homology and the Chern character. **90g:58124**
Guillopé, Laurent Introduction à l'invariant η. [Introduction to the η invariant] (*see* **90m:58223**)
Hirayama, Minoru (*with* Ninagawa, Shigeru) Topological invariant of fermion-vortex system. **90c:58173**
Jarvis, P. D. Supersymmetric quantum mechanics and the index theorem. **90m:58200**
Jones, John D. S. *see* **Getzler, Ezra; et al., 90g:58124**
Killingback, T. P. Quantum Chern-Simons theory. **90f:58166**
Lafferty, John D. (*with* Yu, Yan Lin; Zhang, Wei Ping^1) Clifford asymptotics and the local Lefschetz index. **90k:58211**
Léandre, Rémi Sur le théorème de l'indice des familles. [On the index theorem for families] **90i:58185**
— Sur le théoreme d'Atiyah-Singer. (English summary) [On the Atiyah-Singer theorem] **90a:58166**
Li, Miao Proof of the family index theorem via a path integral. **90h:58078**
Morimoto, Hiroshi A theory of infinite-dimensional cycles for Dirac operators. **90j:58142**
Moscovici, Henri (*with* Stanton, Robert J.) Eta invariants of Dirac operators on locally symmetric manifolds. **90b:58252**
Ninagawa, Shigeru *see* **Hirayama, Minoru, 90c:58173**
O'Raifeartaigh, L. U(1) anomaly and index theorem for compact and Euclidean manifolds. **90j:58143**
Petrack, Scott B. *see* **Getzler, Ezra; et al., 90g:58124**
Roe, John Partitioning noncompact manifolds and the dual Toeplitz problem. **90i:58186**
Shigekawa, Ichiro (*with* Ueki, Naomasa) A stochastic approach to the Riemann-Roch theorem. **90a:58167**
Stanton, Robert J. *see* **Moscovici, Henri, 90b:58252**
Stern, Mark L^2-index theorems on locally symmetric spaces. **90k:58212**
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Taubes, Clifford Henry S^1 actions and elliptic genera. **90f:58167**
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Weinberger, Shmuel Homotopy invariance of η-invariants. **90a:58168**
Wojciechowski, Krzysztof P. On the Calderón projections and spectral projections of the elliptic operators. **90i:58187**
Wu, Yue Liang (*with* Xie, Yan Bo; Zhou, Guang Zhao) The general Chern-Simons characteristic classes and their physical applications. **90b:58253**
Xie, Yan Bo *see* **Wu, Yue Liang; et al., 90b:58253**
Yu, Yan Lin *see* **Lafferty, John D.; et al., 90k:58211**
Zhang, Wei Ping^1 Local Atiyah-Singer index theorem for families of Dirac operators. **90g:58125**
— A note on equivariant eta invariants. **90j:58144**
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Bahri, Anthony (*with* Bendersky, Martin; Gilkey, Peter B.) The relationship between complex bordism and K-theory for groups with periodic cohomology. **90i:57022**
Bakas, I. (*with* McMullan, D.) Gauge group cohomology in the monopole sector of Yang-Mills theories. **90c:81104**
Bendersky, Martin *see* **Bahri, Anthony; et al., 90i:57022**
Birmingham, Danny (*with* Rakowski, Mark; Thompson, George) BRST quantization of topological field theories. **90d:81086**
Bismut, Jean-Michel Localisation du caractère de Chern en géométrie complexe et superconnexions. (English summary) [Localization of the Chern character in complex geometry and superconnections] **90c:32039**
— (*with* Gillet, Henri; Soulé, Christophe) Classes caractéristiques secondaires et immersions en géométrie complexe. (English summary) [Secondary characteristic classes and immersions in complex geometry] **90c:32040**
Bos, Michiel (*with* Nair, V. P.) U(1) Chern-Simons theory and $c=1$ conformal blocks. **90i:81066**
Bost, Jean-Benoît Fibrés déterminants, déterminants régularisés et mesures sur le espaces de modules des courbes complexes. [Determinant bundles, regularized determinants and measures on the moduli spaces of complex curves] **90d:58142**
Carey, A. L. (*with* Palmer, John) Gauge anomalies on S^2 and group extensions. **90h:22022**
Cho, B. H. *see* **Park, D. K.; et al., 90b:81076**
Chou, Arthur W. Criteria for selfadjointness of the Dirac operator on pseudomanifolds. **90k:58229**
Connes, Alain (*with* Moscovici, Henri) Conjecture de Novikov et groupes hyperboliques. (English summary) [Hyperbolic groups and the Novikov conjecture] **90e:57048**
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— (*with* Lozano, G.) Zero modes of the vortex-fermion system: the nonabelian case. **90c:81106**
Danielsson, U. Properties of the three-dimensional Chern-Simons partition function. **90d:81110**
Ermakov, V. G. Homotopy classification of a set of multidimensional boundary value problems of oblique derivative type. **90e:35057**
Eskin, Gregory Index formulas for elliptic boundary value problems in plane domains with corners. **90a:35078**
Feshbach, Mark Topology and physics. **90f:55022**
Fradkin, Eduardo *see* **Cugliandolo, L. F.; et al., 90d:81103**
Fried, David Counting circles. **90c:58157**
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Green, Michael B. Super-translations, superstrings and Chern-Simons forms. **90i:81069**
Grossman, Bernard The adelic components of the index of the Dirac operator. **90b:81126**
Grundberg, J. (*with* Hansson, T. H.; Karlhede, A.; Lindström, U.) Spin, statistics and linked loops. **90h:81158**
Guo, Han Ying *see* **Zhou, Guang Zhao; et al., 90d:81094**
Hansson, T. H. *see* **Grundberg, J.; et al., 90h:81158**
Hayashi, Mitsuo J. (*with* Murayama, Akihiro; Takeshita, Shoji) Three-generation model of the heterotic string compactified on the six-torus. **90h:81159**
Helffer, B. (*with* Sjöstrand, Johannes) A proof of the Bott inequalities. **90g:58018**
Helminck, G. F. Matrix hierarchies and vector bundles over Riemann surfaces. **90c:32042**
Holzapfel, R.-P. Chern number relations for locally abelian Galois coverings of algebraic surfaces. **90f:14005**
Horváthy, P. A. (*with* Rawnsley, J. H.) On the stability of monopoles. (*see* **90i:00004**)
Isham, C. J. (*with* Pope, C. N.; Warner, N. P.) Nowhere-vanishing spinors and triality rotations in 8-manifolds. **90d:53090**
Kanno, Hiroaki Weil algebra structure and geometrical meaning of BRST transformation in topological quantum field theory. **90j:81112**
Karlhede, A. *see* **Grundberg, J.; et al., 90h:81158**
Khimshiashvili, G. N. Noncommutative functional calculus and the Fredholm theory of operator PI-algebras. (Russian) **90c:58018**
Kim, W. T. *see* **Park, D. K.; et al., 90b:81076**
Kimura, Tadahiko Manifestly covariant canonical quantization of 3-D QED with Chern-Simons term. **90h:81081**
Laurent, Yves Opérateurs microdifférentiels et théorèmes de l'indice en dimension 1. [Microdifferential operators and index theorems in dimension 1] **90k:58207**
Lavrov, P. M. (*with* Shvartsman, Sh. M.) On the question of the exact calculation of functional determinants. **90f:81066**
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Lozano, G. *see* **Cugliandolo, L. F., 90c:81106**
Lychagin, V. V. (*with* Rubtsov, V. N.) Topological indices of Spencer complexes that are associated with geometric structures. **90f:58186**

McMullan, D. *see* **Bakas, I., 90c:81104**
Mickelsson, J. Kac-Moody groups and the Dirac determinant line bundle. **90j:22023**
Miller, Haynes The elliptic character and the Witten genus. **90i:55005**
Morita, Shigeyuki On the structure and the homology of the Torelli group. **90h:57015**
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Müller, Werner^1 L^2-index and resonances. **90b:58270**
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Nishitani, Tatsuo Une condition nécessaire pour les systèmes hyperboliques. [A necessary condition for hyperbolic systems] **90h:35144**
Oh, C. H. (*with* Sia, L. C.; Teh, Rosy) Some exact solutions of $(2+1)$-dimensional Yang-Mills equations with the Chern-Simons term. **90h:81091**
Ojima, Shuichi Derivation of gauge and gravitational induced Chern-Simons terms in three dimensions. **90c:81138**
Osborne, M. Scott Lefschetz formulas on nonelliptic complexes. **90k:22022**
Palmer, John *see* **Carey, A. L., 90h:22022**
Panigrahi, P. Chern-Simons terms in string theories. **90c:81210**
Park, D. K. (*with* Kim, W. T.; Cho, B. H.) Construction of Hilbert space in the anomalous gauge theory. **90b:81076**
Pope, C. N. *see* **Isham, C. J.; et al., 90d:53090**
Punchin, Jorge Weakly singular integral operators as mappings between function spaces. **90e:47050**
Rakowski, Mark *see* **Birmingham, Danny; et al., 90d:81086**
Rawnsley, J. H. *see* **Horváthy, P. A., (90i:00004)**
Rogers, Alice A superspace path integral proof of the Gauss-Bonnet-Chern theorem. **90e:58012**
Rubtsov, V. N. *see* **Lychagin, V. V., 90f:58186**
Ruijsenaars, S. N. M. Index formulas for generalized Wiener-Hopf operators and boson-fermion correspondence in $2N$ dimensions. **90k:81105**
Schaposnik, Fidel A. *see* **Cugliandolo, L. F.; et al., 90d:81103**
Schellekens, A. N. Chiral anomalies in string theory. **90h:81189**
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Terman, David Connection problems arising from nonlinear diffusion equations. **90c:35125**
Thompson, George *see* **Birmingham, Danny; et al., 90d:81086**
Thorn, Charles B. String field theory. **90e:81236**
Tosa, Y. Generalized Green-Schwarz anomaly cancellation mechanism. **90c:81222**
Vanzo, Luciano (*with* Zerbini, Sergio) Critical dimension of bosonic string theory and zeta-function regularization. **90d:81102**
Warner, N. P. *see* **Isham, C. J.; et al., 90d:53090**
Wen, Xiao-Gang (*with* Zee, A.) Winding number, family index theorem, and electron hopping in a magnetic field. **90d:81135**
Wipf, A. The U(1)-anomaly, phase shifts and the η-invariant. **90k:81138**
Witten, Edward $2+1$-dimensional gravity as an exactly soluble system. **90a:83041**
— Gauge theories and integrable lattice models. **90i:81096**
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Zerbini, Sergio *see* **Vanzo, Luciano, 90d:81102**
Zhou, Guang Zhao (*with* Guo, Han Ying; Song, Xing Chang) Anomalies and cohomology. I, II. **90d:81094**

58G11 Heat and other parabolic equation methods

Anker, Jean-Philippe Le noyau de la chaleur sur les espaces symétriques $\mathrm{U}(p,q)/\mathrm{U}(p)\times\mathrm{U}(q)$. [The heat kernel on the symmetric spaces $\mathrm{U}(p,q)/\mathrm{U}(p)\times\mathrm{U}(q)$] **90f:58168**
Bartnik, Robert Regularity of variational maximal surfaces. **90b:58255**
Branson, Thomas P. (*with* Gilkey, Peter B.) The asymptotics of the Laplacian on a manifold with boundary. **90m:58201**
Davies, E. B. Gaussian upper bounds for the heat kernels of some second-order operators on Riemannian manifolds. **90k:58213**
— Pointwise inequalities for heat kernels. (*see* **90m:81002**)
— Pointwise bounds on the space and time derivatives of heat kernels. **90k:58214**
Dowker, J. S. Heat kernel expansion on a generalized cone. **90b:58256**
Ferraz de Camargo Fo., A. *see* **Malbouisson, A. P. C.; et al., 90m:58204a** *and* **90m:58204b**
Getzler, Ezra A heat equation approach to Boutet de Monvel's index theorem for Toeplitz operators. **90d:58147**
— An analogue of Demailly's inequality for strictly pseudoconvex CR manifolds. **90d:58148**
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Gusynin, V. P. New algorithm for computing the coefficients in the heat kernel expansion. **90k:58215**
Hueber, H. (*with* Müller, Detlef Horst) Asymptotics for some Green kernels on the Heisenberg group and the Martin boundary. **90b:58257**
Jaffe, Arthur Heat kernel regularization and infinite-dimensional analysis. **90m:58202**
Kendall, W. S. Coupled Brownian motions and partial domain monotonicity for the Neumann heat kernel. **90m:58203**
Malbouisson, A. P. C. (*with* Rego Monteiro, M. A.; Simão, F. R. A.) A Mellin transform technique for the heat kernel expansion. **90i:58188**
— (*with* Simão, F. R. A.; Ferraz de Camargo Fo., A.) Some results from a Mellin transform expansion for the heat kernel. **90m:58204a**
— (*with* Simão, F. R. A.; Ferraz de Camargo Fo., A.) Erratum: "Some results from a Mellin transform expansion for the heat kernel". **90m:58204b**
Moss, Ian Boundary terms in the heat kernel expansion. **90b:58258**
Müller, Detlef Horst *see* **Hueber, H., 90b:58257**
Nishikawa, Seiki (*with* Ramachandran, Mohan; Tondeur, Philippe) Heat conduction for Riemannian foliations. **90i:58189**
— (*with* Ramachandran, Mohan; Tondeur, Philippe) The heat equation for Riemannian foliations. **90j:58145**
Ramachandran, Mohan *see* **Nishikawa, Seiki; et al., 90i:58189** *and* **90j:58145**
Rego Monteiro, M. A. *see* **Malbouisson, A. P. C.; et al., 90i:58188**
Sheĭnman, O. K. The kernel of an evolution operator in the space of sections of a vector bundle as an integral over trajectories. **90m:58205**
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Tondeur, Philippe *see* **Nishikawa, Seiki; et al., 90i:58189** *and* **90j:58145**
Varopoulos, Nicholas Th. Small time Gaussian estimates of heat diffusion kernels. I. The semigroup technique. **90k:58216**
Watling, Keith D. Formulæ for the heat kernel of an elliptic operator exhibiting small-time asymptotics. **90j:58146**
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Airault, Hélène Projection of the infinitesimal generator of a diffusion. **90j:58157**
Andersson, Stig I. (*with* Högfors, Christian; Pettersson, Bo) Microlocal heat kernel asymptotics and inverse spectral problems. I. Reduction to the boundary and the asymptotic expansion. **90j:58148**
Batty, Charles J. K. (*with* Bratteli, Ola; Robinson, Derek W.) The heat semigroup, derivations, and Reynolds's identity. **90h:46101**
Baum, Helga 1-forms over the moduli space of irreducible connections defined by the spectrum of Dirac operators. **90g:58142**
Bernard, Denis Towards generalized Macdonald's identities. **90j:17034**
Bismut, Jean-Michel Index theorem and the heat equation. **90a:58165**
— Formules de localisation et formules de Paul Lévy. (English summary) [Localization formulas and Paul Lévy formulas] **90d:58154**
Branson, Thomas P. (*with* Gilkey, Peter B.; Ørsted, Bent) Leading terms in the heat invariants. **90k:58227**
Bratteli, Ola (*with* Goodman, Fred; Jørgensen, Palle E. T.; Robinson, Derek W.) The heat semigroup and integrability of Lie algebras. **90a:47105**
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Brooks, Robert (*with* Perry, Peter A.; Yang, Paul) Isospectral sets of conformally equivalent metrics. **90i:58193**
Carfora, M. (*with* Isenberg, James; Jackson, Martin) Convergence of the Ricci flow for metrics with indefinite Ricci curvature. **90m:53054**
Chen, Jie Cheng Heat kernels on normal Lie groups. **90f:22013**
Chen, Yun Mei The weak solutions to the evolution problems of harmonic maps. **90i:58030**
— (*with* Struwe, Michael) Existence and partial regularity results for the heat flow for harmonic maps. **90i:58031**
— (*with* Ding, Wei Yue) Blow-up and global existence for heat flows of harmonic maps. **90m:58039**
Cognola, Guido (*with* Zerbini, Sergio) Seeley-De Witt coefficients in a Riemann-Cartan manifold. **90c:81134**
— (*with* Vanzo, Luciano; Zerbini, Sergio) Sum rules for spectral densities of differential operators and generalized heat kernel expansion. **90d:58155**
Coron, J.-M. (*with* Ghidaglia, J.-M.) Explosion en temps fini pour le flot des applications harmoniques. (English summary) [Finite-time blow-up for the heat flow of harmonic mappings] **90g:58026**
Costa, K. M. Scalar field theory on a Kähler manifold. **90g:81180**
Craioveanu, Mircea (*with* Puta, Mircea) ★ Introducere în geometria spectrală. (Romanian) [Introduction to spectral geometry] **90i:58195**
Davies, E. B. ★ Heat kernels and spectral theory. **90e:35123**
— An eigenvalue bound for compact manifolds with varying curvature. **90k:58231**
— Spectral properties of compact manifolds and changes of metric. **90k:58232**
Ding, Wei Yue *see* **Chen, Yun Mei, 90m:58039**
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Elizalde, E. (*with* Romeo, A.) Rigorous extension of the proof of zeta-function regularization. **90d:81097**
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Goodman, Fred *see* **Bratteli, Ola; et al., 90a:47105**
Hebisch, Waldemar Sharp pointwise estimate for the kernels of the semigroup generated by sums of even powers of vector fields on homogeneous groups. **90k:58259**
Högfors, Christian *see* **Andersson, Stig I.; et al., 90j:58148**
Hsu, Pei Heat semigroup on a complete Riemannian manifold. **90j:58158**
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Jørgensen, Palle E. T. *see* **Bratteli, Ola; et al., 90a:47105**
Konoplich, R. V. The zeta-function method in field theory at finite temperature. **90e:81111**
Léandre, Rémi Sur le théorème de l'indice des familles. [On the index theorem for families] **90i:58185**
— Sur le théoreme d'Atiyah-Singer. (English summary) [On the Atiyah-Singer theorem] **90a:58166**
— Volume de boules sous-riemanniennes et explosion du noyau de la chaleur au sens de Stein. [Volume of sub-Riemannian balls and explosion of the heat kernel in the sense of Stein] **90k:58245**
Leutwyler, H. On the determinant of the Weyl operator. **90b:81073**
Li, Jiang Fan The existence of closed geodesics on a complete Riemannian manifold. **90j:58030**
Li, Zhi Bin (*with* Luo, Xue Bo) A singularity analysis for fundamental solutions of generalized wave operators on the Heisenberg group. (Chinese. English summary) **90k:58221**
Lohoue, Noël Remarques sur les intégrales singulières sur les variétés à courbure non positive. (English summary) [Remarks on singular operators on non-positively curved Riemannian manifolds] **90e:58151**
Luckock, Hugh Quantum geometry of strings with boundaries. **90h:81173**

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Matano, Hiroshi Asymptotic behavior of solutions of semilinear heat equations on S^1. **90b:35033**
Mathur, Samir D. (*with* Mukhi, Sunil; Sen, Ashoke) Differential equations for correlators and characters in arbitrary rational conformal field theories. **90a:81147**
Moss, Ian (*with* Dowker, J. S.) The correct B_4 coefficient. **90j:58153**
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Nagase, Masayoshi Remarks on the L^2-cohomology of singular algebraic surfaces. **90m:58005**
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Osgood, B. (*with* Phillips, Ralph S.; Sarnak, P.) Compact isospectral sets of surfaces. **90d:58160**
Perry, Peter A. Inverse spectral problems on compact Riemannian manifolds. **90m:58216**
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Shi, Wan-Xiong Deforming the metric on complete Riemannian manifolds. **90i:58202**
Shigekawa, Ichiro (*with* Ueki, Naomasa) A stochastic approach to the Riemann-Roch theorem. **90a:58167**
Sidorowicz, Józef Heat diffraction by a smooth and convex domain in $\mathbf{R}^\nu$. (Russian) **90m:35079**
Soyeur, A. A global existence result for the heat flow of harmonic maps. **90k:58054**
Stanton, Nancy K. Spectral invariants of CR manifolds. **90k:58239**
Stroock, Daniel W. A probabilistic approach to finding estimates for the heat kernel associated with a Hörmander form operator. **90i:60037**
Struwe, Michael On the evolution of harmonic maps in higher dimensions. **90j:58037**
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Urakawa, Hajime Spectral geometry of the second variation operator of harmonic maps. **90c:58041**
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Zhang, Gong Qing Heat flow and boundary value problem for harmonic maps. (French summary) **90i:58037**
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Zhu, Fu Liu Riesz transformations on a noncompact symmetric space of rank one. (Chinese) **90m:22029**

58G12 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

Baum, Paul (*with* Connes, Alain) Chern character for discrete groups. **90e:58149**
Connes, Alain (*with* Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **90c:58174**
— *see also* **Baum, Paul, 90e:58149**
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— (*with* Hurder, S.; Kaminker, J.) Eta invariants and von Neumann algebras. **90g:58128**
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— *see also* **Douglas, R. G.; et al., 90g:58128**
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— *see also* **Connes, Alain, 90c:58174**
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— Compact metric spaces, Fredholm modules, and hyperfiniteness. **90i:46124**
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— Elliptic invariants for differential operators. **90b:58251**
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58G15 Pseudodifferential and Fourier integral operators on manifolds

Andersson, Stig I. (*with* Högfors, Christian; Pettersson, Bo) Microlocal heat kernel asymptotics and inverse spectral problems. I. Reduction to the boundary and the asymptotic expansion. **90j:58148**
Cui, Shang Bin Local fundamental solutions and local solvability of a class of left invariant differential operators on the Heisenberg group. (Chinese. English summary) **90i:58190**
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— *see also* **Mishchenko, A. S., 90m:58206**
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Plamenevskiĭ, B. A. (*with* Senichkin, V. N.) The spectrum of an algebra of pseudodifferential operators with piecewise smooth symbols. **90d:58151**

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Sternin, B. Yu. (*with* Shatalov, V. E.) Differential equations on complex-analytic manifolds and the Maslov canonical operator. **90a:58172**

— (*with* Shatalov, V. E.) Asymptotic behavior of solutions of differential equations on complex varieties. **90b:58262**

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— Systems of microdifferential equations with involutory double characteristics. Propagation theorem for sheaves in the framework of microlocal study of sheaves. **90a:58174**

Tulovsky, Vladimir On the second subprincipal symbol of a pseudodifferential operator. **90e:58152**

Unterberger, A. Analyse harmonique et analyse pseudo-différentielle du cône de lumière. (English summary) [Harmonic analysis and pseudodifferential analysis of the light cone] **90d:58152**

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Anné, Colette (*with* Besson, Gérard) Sur le théorème de l'indice d'après Ezra Getzler. [On the index theorem, following Ezra Getzler] **90m:58199**

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Berhanu, S. Hypo-analytic pseudodifferential operators. **90e:35176**

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Bony, Jean-Michel (*with* Lerner, N.) Quantification asymptotique et microlocalisations d'ordre supérieur. I. [Asymptotic quantization and higher-order microlocalizations. I] **90k:35276**

Cardoso, Fernando (*with* Mendoza, Ramón) The spectral distribution of a globally elliptic operator. **90b:35175**

Christ, Michael On the regularity of inverses of singular integral operators. **90c:42022**

Danilov, V. G. Well-posedness of h-pseudodifferential equations in the class of asymptotics of exponential type. (Russian) **90c:35211**

— (*with* Zhevandrov, P. N.) Maslov's method for constructing combined asymptotics for h-pseudodifferential equations. **90i:35061**

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— (*with* Gaveau, Bernard) The stationary phase method for certain degenerate critical points. I. **90j:41058**

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Getzler, Ezra An analogue of Demailly's inequality for strictly pseudoconvex CR manifolds. **90d:58148**

Gramsch, Bernhard (*with* Kaballo, Winfried) Decompositions of meromorphic Fredholm resolvents and Ψ^*-algebras. **90d:47016**

Hilsum, Michel (*with* Skandalis, Georges) Morphismes K-orientés d'espaces de feuilles et fonctorialité en théorie de Kasparov (d'après une conjecture d'A. Connes). (English summary) [K-oriented morphisms of spaces of leaves and functoriality in Kasparov theory (after a conjecture of A. Connes)] **90a:58169**

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Slobodin, V. I. Homogeneous boundary value problems for elliptic operators with boundary conditions on smooth manifolds of arbitrary dimension. **90c:35068**

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— (*with* McLenaghan, R. G.) An explicit determination of the space-times on which the conformally invariant scalar wave equation satisfies Huygens' principle. III. Petrov type III space-times. (French summary) **90e:58153b**

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Bernardi, E. (*with* Bove, A.; Parenti, C.) On a class of hyperbolic operators with double characteristics. **90i:35152**

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Parenti, C. (*with* Bernardi, E.; Bove, A.) Propagation of C^∞-singularities for a class of hyperbolic operators with double characteristics. **90c:35004**
— *see also* **Bernardi, E.; et al., 90i:35152**
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58G17 Propagation of singularities; initial value problems

Delort, J.-M. Conormalité des ondes semi-linéaires le long des caustiques. [Conormality of semilinear waves along caustic surfaces] **90j:58149**
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Bondi, Hermann (*with* Pirani, F. A. E.) Gravitational waves in general relativity. XIII. Caustic property of plane waves. **90k:83035**
Bony, Jean-Michel Analyse microlocale et singularités non linéaires. [Microlocal analysis and nonlinear singularities] **90k:35008**
— (*with* Lerner, N.) Quantification asymptotique et microlocalisations d'ordre supérieur. I. [Asymptotic quantization and higher-order microlocalizations. I] **90k:35276**
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Mizohata, S. On propagation of singularities. **90d:35009**
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Amsterdamski, Piotr (*with* Berkin, Andrew L.; O'Connor, D. J.) b_8 "Hamidew" coefficient for a scalar field. **90j:58152**

Anikonov, Yu. E. (*with* Stepanov, V. N.) ★ О восстановлении излучающих многообразий. (Russian) [Reconstruction of radiating manifolds] **90c:58179**

Anné, Colette Perturbation du spectre $X \setminus TUB^{\varepsilon}Y$ (conditions de Neumann). [Perturbation of the spectrum $X \setminus TUB^{\varepsilon}Y$ (Neumann conditions)] (*see* **90m:58220**)

Bang, Seung-Jin The first Dirichlet eigenvalue and radius of a geodesic ball. **90e:58154**

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Beekmann, Brigitte On the spectrum of Riemannian G-manifolds. **90k:58225**

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Colin de Verdière, Yves Calcul du spectre de certaines nilvariétes compactes de dimension 3. [Calculation of the spectrum of some three-dimensional compact nilmanifolds] **90k:58230**

— Opérateur de Schrödinger pour un champ magnétique constant sur l'espace euclidien à deux dimensions. [The Schrödinger operator for a constant magnetic field on two-dimensional Euclidean space] (*see* **90j:58001**)

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Zuily, C. Existence locale de solutions C^∞ pour l'équation de Monge-Ampère. (English summary) [Local existence of C^∞ solutions for the Monge-Ampère equation] **90e:35078**
— Existence locale de solutions C^∞ pour des équations de Monge-Ampère changeant de type. (English summary) [Local existence of C^∞ solutions for Monge-Ampère equations of changing type] **90h:35093**

58G32 Diffusion processes and stochastic analysis on manifolds

Airault, Hélène Projection of the infinitesimal generator of a diffusion. **90j:58157**
Bakry, Dominique La propriété de sous-harmonicité des diffusions dans les variétés. [The subharmonicity property of diffusions on manifolds] **90h:58084**
— The Riesz transforms associated with second order differential operators. **90c:58186**
Baxendale, Peter H. (*with* Stroock, Daniel W.) Large deviations and stochastic flows of diffeomorphisms. **90g:58144**
Buslov, V. A. (*with* Makarov, K. A.) A time-scale hierarchy with small diffusion. **90a:58188**
Elworthy, K. David Geometric aspects of diffusions on manifolds. **90c:58187**
Emery, Michel ★ Stochastic calculus in manifolds. **90k:58244**
Funaki, Tadahisa On diffusive motion of closed curves. **90c:58188**
Gaveau, Bernard (*with* Sainty, Philippe) A path integral formula for certain fourth-order elliptic operators. **90g:58145**
Getzler, Ezra Dirichlet forms on loop space. **90g:58146**
Grigor′yan, A. A. Stochastically complete manifolds and summable harmonic functions. **90a:58189**
Hsu, Pei Heat semigroup on a complete Riemannian manifold. **90j:58158**
— Brownian bridges on Riemannian manifolds. **90m:58227**
Kendall, W. S. Martingales on manifolds and harmonic maps. **90d:58163**
— Busemann functions and Brownian motion. **90g:58147**
Léandre, Rémi Volume de boules sous-riemanniennes et explosion du noyau de la chaleur au sens de Stein. [Volume of sub-Riemannian balls and explosion of the heat kernel in the sense of Stein] **90k:58245**
Makarov, K. A. *see* **Buslov, V. A., 90a:58188**
Markvorsen, Steen On the mean exit time from a minimal submanifold. **90a:58190**
(Meyer, P.-A.) *see* **Emery, Michel, 90k:58244**
Norris, J. R. Construction of diffusions with a given density. **90m:58228**
Pinsky, Mark Local stochastic differential geometry, or What can you learn about a manifold by watching Brownian motion? **90d:58164**
Sainty, Philippe *see* **Gaveau, Bernard, 90g:58145**
Stroock, Daniel W. *see* **Baxendale, Peter H., 90g:58144**
Varopoulos, Nicholas Th. Random walks and Brownian motion on manifolds. **90c:58189**
— Green's function and harmonic functions on manifolds. **90c:58190**
Wu, Chun Zhang Recurrence of Brownian motion on Riemannian manifolds. (Chinese. English summary) **90k:58246**

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Applebaum, David Stochastic evolution of Yang-Mills connections on the noncommutative two-torus. **90c:58031**
Ballmann, Werner On the Dirichlet problem at infinity for manifolds of nonpositive curvature. **90j:53059**

Ben Arous, Gérard Flots et séries de Taylor stochastiques. (English summary) [Flows and stochastic Taylor series] **90a:60106**
Berthuet, Roland Équations différentielles stochastiques et algèbres de Lie sous-jacentes. Fonctionnelle de Yamato. [Stochastic differential equations and underlying Lie algebras. The Yamato functional] (*see* **90a:00013**)
Bismut, Jean-Marie Formules de Lichnerowicz et théorème de l'indice. [Lichnerowicz formulas and the index theorem] **90f:58165**
Bismut, Jean-Michel Filtering equation, equivariant cohomology and the Chern character. **90c:58172**
— Formules de localisation et formules de Paul Lévy. (English summary) [Localization formulas and Paul Lévy formulas] **90d:58154**
Chaleyat-Maurel, M. (*with* Le Gall, Jean-François) Propriétés trajectorielles d'une classe de processus de diffusion hypoelliptiques. (English summary) [Sample path properties of a class of hypoelliptic diffusion processes] **90e:60090**
Chaperon, Marc (*with* López de Medrano, Santiago; Watts, Charlotte H.; Zeeman, E. C.) Almost invariant probability measures for diffeomorphisms and flows on a compact Riemannian manifold, and the associated notion of structural stability. (French summary) **90b:58133**
Chappell, M. J. (*with* Elworthy, K. David) Flows of Newtonian diffusions. **90f:60140**
Duncan, T. E. Brownian motion and affine Lie algebras. **90f:17026**
Èloshvili, S. A. Conditional expectation and martingales on a smooth manifold. (Russian. English and Georgian summaries) **90k:60084**
Elworthy, K. David (*with* Rosenberg, Steven) Generalized Bochner theorems and the spectrum of complete manifolds. **90a:58178**
— *see also* **Chappell, M. J., 90f:60140**
Epstein, C. L. Positive harmonic functions on abelian covers. **90c:30074**
Hasegawa, Yoshihei Brownian motions on infinite-dimensional quadric hypersurfaces. **90b:60064**
Herer, Wojciech Martingales à valeurs fermées bornées d'un espace métrique à courbure négative. (English summary) [Martingales with values in closed bounded subsets of a metric space with negative curvature] **90c:60033**
Ikeda, Nobuyuki (*with* Watanabe, Shinzo) ★ Stochastic differential equations and diffusion processes. **90m:60069**
Kaneko, Hiroshi^2 (*with* Nakao, S.) A note on approximation for stochastic differential equations. **90a:60108**
Kendall, W. S. Brownian motion, computer algebra, and the statistics of shape. **90e:60013**
— Coupled Brownian motions and partial domain monotonicity for the Neumann heat kernel. **90m:58203**
Kowalski, O. (*with* Prüfer, Friedbert) On probabilistic commutative spaces. **90b:53054**
Léandre, Rémi Sur le théorème de l'indice des familles. [On the index theorem for families] **90i:58185**
Ledrappier, F. Random diffeomorphisms. (*see* **90m:81002**)
Le Gall, Jean-François *see* **Chaleyat-Maurel, M., 90e:60090**
Lerche, H. R. (*with* Siegmund, David) Approximate exit probabilities for a Brownian bridge on a short time interval, and applications. **90e:60093**
López de Medrano, Santiago *see* **Chaperon, Marc; et al., 90b:58133**
Manabe, Shojiro (*with* Ochi, Yoko) The central limit theorem for current-valued processes induced by geodesic flows. **90f:58140**
Nakamura, Yoshimasa A new approach to the linear prediction problem for infinite stationary processes in terms of Riemann-Hilbert transformation theory. **90m:60048**
Nakao, S. *see* **Kaneko, Hiroshi**^{2}**, 90a:60108**
Ochi, Yoko *see* **Manabe, Shojiro, 90f:58140**
Ozawa, Shin Approximation of Green's function in a region with many obstacles. **90i:58197**
Prüfer, Friedbert *see* **Kowalski, O., 90b:53054**
Ramasubramanian, S. Addendum: "Hitting of submanifolds by diffusions" [Probab. Theory Related Fields 78 (1988), no. 1, 149–163; MR 89h:60131]. **90k:60151**
Roozen, H. A short introduction to exit problems. **90g:60056**
Rosenberg, Steven Semigroup domination and vanishing theorems. **90k:58243**
— *see also* **Elworthy, K. David, 90a:58178**
Schwartz, Laurent Les différentielles de semi-martingales vraies, sections de fibrés vectoriels. (English summary) [The differentials of true semimartingales, sections of vector bundles] **90m:60053**
Shigekawa, Ichiro (*with* Ueki, Naomasa) A stochastic approach to the Riemann-Roch theorem. **90a:58167**
Siegmund, David *see* **Lerche, H. R., 90e:60093**
Stoica, Lucretiu The oscillations of Brownian motion near a hypersurface. **90j:60076**
Stroock, Daniel W. Malliavin calculus and its applications to partial differential equations. (Chinese. English summary) **90a:60104**
Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**
Ueki, Naomasa *see* **Shigekawa, Ichiro, 90a:58167**
Uemura, Hideaki (*with* Watanabe, Shinzo) Diffusion processes and heat kernels on certain nilpotent groups. **90a:60141**
Watanabe, Shinzo *see* **Uemura, Hideaki, 90a:60141** *and* **Ikeda, Nobuyuki, 90m:60069**
Watling, Keith D. Formulæ for the heat kernel of an elliptic operator exhibiting small-time asymptotics. **90j:58146**
Watts, Charlotte H. *see* **Chaperon, Marc; et al., 90b:58133**
Zeeman, E. C. On the classification of dynamical systems. **90c:58096**
— *see also* **Chaperon, Marc; et al., 90b:58133**

58G35 Invariance properties

Baĭkov, V. A. (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Perturbation methods in group analysis. (Russian) **90k:58247**
— (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Approximate symmetries and formal linearization. **90f:58177**
Bakhtizin, R. N. Group analysis of equations of the flow of a thixotropic fluid. (Russian) **90d:58165**
Barannik, L. F. (*with* Lagno, V. I.; Fushchich, V. I.) Subalgebras of the Poincaré algebra AP(2, 3) and the symmetry reduction of the nonlinear ultrahyperbolic d'Alembert equation. II. **90f:58178**
— (*with* Lagno, V. I.) One-parameter subgroups of the generalized Poincaré group $P(2,n)$ and their invariants. **90i:58203**
Batyrov, S. On the invariance algebra of a fourth-order equation. (Russian) (*see* **90d:00033**)
Bluman, George W. Simplifying the form of Lie groups admitted by a given differential equation. **90k:58248**
Branson, Thomas P. Conformal transformation, conformal change, and conformal covariants. **90k:58249**
Carillo, Sandra (*with* Fuchssteiner, Benno) The abundant symmetry structure of hierarchies of nonlinear equations obtained by reciprocal links. **90j:58159**
Chen, Chang Han Invariants of second-order linear differential equations in Lie groups. (Chinese. English summary) **90k:58250**
Cheng, Yi^1 The Virasoro and Kac-Moody symmetries for the principal chiral model. **90a:58191**
— Symmetries and hierarchies of equations for the $(2+1)$-dimensional N-wave interaction. **90b:58275**
Chirkunov, Yu. A. *see* **Prudnikov, V. Yu., 90b:58278**
Cicogna, G. (*with* Vitali, D.) Generalised symmetries of Fokker-Planck-type equations. **90h:58085**
Clarkson, P. A. New similarity reductions and Painlevé analysis for the symmetric regularised long wave and modified Benjamin-Bona-Mahoney equations. **90k:58251**
Conte, Robert Invariant Painlevé analysis of partial differential equations. **90m:58229**
Dorodnitsyn, V. A. (*with* Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) **90m:58230**
— The Newton group and commutativity properties of Lie-Bäcklund operators in difference spaces. (Russian) **90m:58231**
Draayer, J. P. *see* **Rosensteel, G., 90b:58280**
Drew, Mark S. (*with* Kloster, Steve C.; Gegenberg, J. D.) Lie group analysis and similarity solutions for the equation $\partial^2u/\partial x^2+\partial^2u/\partial y^2+\partial^2(e^u)/\partial z^2=0$. **90h:58086**
van Eck, H. N. A non-Archimedean approach to prolongation theory. **90m:58232**
Egorchenko, I. A. *see* **Fushchich, V. I., 90i:58205**
Elenin, G. G. *see* **Dorodnitsyn, V. A., 90m:58230**
Euler, N. (*with* Steeb, W.-H.) Painlevé test and discrete Boltzmann equations. **90b:58276**
Fokas, A. S. Symmetries and integrability. **90k:58252**
Fuchssteiner, Benno *see* **Carillo, Sandra, 90j:58159**
Fujimoto, Atsuo (*with* Watanabe, Yoshihide) Classification of the third-order polynomial evolution equations of not normal type admitting nontrivial symmetries. **90f:58179**
— (*with* Watanabe, Yoshihide) Polynomial evolution equations of not normal type admitting nontrivial symmetries. **90h:58087**
Fushchich, V. I. The symmetry and exact solutions of some multidimensional nonlinear equations of mathematical physics. (*see* **90i:00004**)
— (*with* Serov, N. I.) Conditional invariance of the nonlinear equations of d'Alembert, Liouville, Born-Infeld, and Monge-Ampère with respect to the conformal algebra. (Russian) **90i:58204**
— (*with* Zhdanov, R. Z.) Symmetry and exact solutions of the nonlinear Dirac equation. **90b:58277**
— (*with* Egorchenko, I. A.) Differential invariants of the Poincaré algebra and of the conformal algebra. (Russian. English summary) **90i:58205**
— (*with* Kornyak, V. V.) Computer algebra application for determining Lie and Lie-Bäcklund symmetries of differential equations. **90d:58166**
— *see also* **Barannik, L. F.; et al., 90f:58178**
Garaev, K. G. A remark on E. Noether's theory. (Russian) **90k:58253**
Gazizov, R. K. *see* **Baĭkov, V. A.; et al., 90f:58177** *and* **90k:58247**
Gegenberg, J. D. *see* **Drew, Mark S.; et al., 90h:58086**
Gover, Rod Conformally invariant operators of standard type. **90k:58254**
Gusyatnikova, V. N. (*with* Samokhin, A. V.; Titov, V. S.; Vinogradov, A. M.; Yumaguzhin, V. A.) Symmetries and conservation laws of Kadomtsev-Pogutse equations (their computation and first applications). **90i:58206**
Harrison, B. Kent *see* **Papachristou, Costas, 90i:58208**
Ibragimov, N. Kh. *see* **Baĭkov, V. A.; et al., 90f:58177** *and* **90k:58247**
Ji, Xiao Da *see* **Zhu, Guo Cheng, 90b:58282** *and* **90j:58169**
Kersten, Paul H. M. Software to compute infinitesimal symmetries of exterior differential systems, with applications. **90j:58160**
Kloster, Steve C. *see* **Drew, Mark S.; et al., 90h:58086**
Kornyak, V. V. Integration of defining systems of Bäcklund symmetries by means of computer algebra. (Russian) **90i:58207**
— *see also* **Fushchich, V. I., 90d:58166**
Krivskiĭ, I. Yu. Extension of the conformal symmetry of field equations and conservation laws. (Russian. English summary) **90a:58192**
Lagno, V. I. Abelian subalgebras of the algebra AP(2, 2) and the separation of variables in the Minkowski space M(2, 2). (Russian) **90h:58088**
— *see also* **Barannik, L. F.; et al., 90f:58178** *and* **90i:58203**
Levi, D. (*with* Winternitz, P.) Nonclassical symmetry reduction: example of the Boussinesq equation. **90j:58161**
— (*with* Nucci, Maria Clara; Rogers, Colin; Winternitz, P.) Group theoretical analysis of a rotating shallow liquid in a rigid container. (French summary) **90j:58162**
Leznov, A. N. The internal symmetry group and methods of field theory for integrating exactly soluble dynamic systems. **90a:58193**
Li, Yi Shen (*with* Zhu, Guo Cheng) New set of symmetries of the integrable equations, Lie algebra and nonisospectral evolution equations. II. AKNS system. **90a:58195**
— (*with* Zhu, Guo Cheng) New set of symmetries for integrable equations, Lie algebra, nonisospectral eigenvalue problems. I. **90a:58194**
— *see also* **Zhu, Guo Cheng, 90a:58196; 90a:58197** *and* **90a:58198**
Lyakhovskiĭ, V. D. *see* **Vasilevich, D. V.; et al., 90e:58163**
Martina, L. (*with* Winternitz, P.) Analysis and applications of the symmetry group of the multidimensional three-wave resonant interaction problem. (French summary) **90k:58255**
Martini, R. *see* **Nijs, H., 90h:58089**
Megrabov, A. G. Determining exact group-invariant solutions by means of the method of group bundles. **90m:58233**

Mel′nikov, V. K. Symmetries, nonlinear transformations, and equations integrable by the inverse scattering method. **90c:58191**
Mukherjee, Jayasree (*with* Roy Chowdhury, A.) On the Lie symmetry, conservation laws and Painlevé analysis for the viscous transonic equation. (German summary) **90g:58148**
Nijs, H. (*with* Martini, R.) Triviality of the prolongation algebra of the Kuramoto-Sivashinsky equation. **90h:58089**
Nucci, Maria Clara *see* **Levi, D.; et al., 90j:58162**
Olver, Peter J. Generalized symmetries. **90j:58164**
— ★ Приложения групп Ли к дифференциальным уравнениям. (Russian) [Applications of Lie groups to differential equations] **90j:58163**
Papachristou, Costas (*with* Harrison, B. Kent) Symmetry groups of partial differential equations associated with vector-valued differential forms. **90i:58208**
Prudnikov, V. Yu. (*with* Chirkunov, Yu. A.) Group bundle of the Lamé equations. **90b:58278**
Pysiak, Leszek Invariant differential equations and spectral analysis. (Spanish) **90b:58279**
Rogers, Colin *see* **Levi, D.; et al., 90j:58162**
Rosensteel, G. (*with* Draayer, J. P.) Symmetry algebra of the anisotropic harmonic oscillator with commensurate frequencies. **90b:58280**
Roy Chowdhury, A. *see* **Mukherjee, Jayasree, 90g:58148**
Saint-Aubin, Yvan Infinite-dimensional Lie algebras acting on the solution space of σ models with a Wess-Zumino term. **90j:58165**
Samokhin, A. V. *see* **Gusyatnikova, V. N.; et al., 90i:58206**
Schimming, R. On constant solutions of the Yang-Mills equations. **90b:58281**
Senashov, S. I. (*with* Vinogradov, A. M.) Symmetries and conservation laws of 2-dimensional ideal plasticity. **90j:58166**
Serov, N. I. *see* **Fushchich, V. I., 90i:58204**
(Shabat, A. B.) *see* **Olver, Peter J., 90j:58163**
(Shcherbak, I. G.) *see* **Olver, Peter J., 90j:58163**
Shtykov, N. N. *see* **Vasilevich, D. V.; et al., 90e:58163**
Shugrin, S. M. Conservation laws, invariance and the equations of gas dynamics. **90i:58209**
Sokolov, V. V. Symmetries of evolution equations. **90f:58180**
Steeb, W.-H. *see* **Euler, N., 90b:58276**
Stogniĭ, V. I. On symmetry and conservation laws of some systems of partial differential equations. (Russian) **90h:58090**
Sun, Tao New symmetries and their Lie algebra properties for the Burgers equations. **90j:58167**
— (*with* Wang, Wei^7) Symmetries and their Lie algebra properties for the higher-order Burgers equations. **90j:58168**
Titov, V. S. *see* **Gusyatnikova, V. N.; et al., 90i:58206**
Tu, Gui Zhang The Lie algebraic structure of symmetries generated by hereditary symmetries. **90a:58199**
Vasilevich, D. V. (*with* Lyakhovskiĭ, V. D.; Shtykov, N. N.) Rescaling of metric, invariant operators and spontaneous compactification. **90e:58163**
Verbovetskiĭ, A. M. Local nonintegrability of long-short wave interaction equations. **90i:58210**
Vinogradov, A. M. *see* **Gusyatnikova, V. N.; et al., 90i:58206** *and* **Senashov, S. I., 90j:58166**
Vitali, D. *see* **Cicogna, G., 90h:58085**
Voĭnich, A. M. On the invariance algebra of a system of differential equations that describe a dipole field. (Russian) **90i:58211**
Wang, Wei^7 *see* **Sun, Tao, 90j:58168**
Watanabe, Yoshihide *see* **Fujimoto, Atsuo, 90f:58179** *and* **90h:58087**
Winternitz, P. Loop algebras as symmetry algebras of nonlinear partial differential equations integrable by inverse scattering techniques. **90k:58256**
— *see also* **Levi, D., 90j:58161; 90j:58162** *and* **Martina, L., 90k:58255**
Yumaguzhin, V. A. *see* **Gusyatnikova, V. N.; et al., 90i:58206**
Zhdanov, R. Z. *see* **Fushchich, V. I., 90b:58277**
Zhu, Guo Cheng (*with* Li, Yi Shen) New symmetries for integrable equations, Lie algebras and nonisospectral evolution equations. IV. (Chinese. English summary) **90a:58198**
— (*with* Li, Yi Shen) New symmetries for integrable equations, Lie algebras and nonisospectral evolution equations. III. (Chinese) **90a:58197**
— (*with* Li, Yi Shen) New set of symmetries for the integrable equations, Lie algebra, nonisospectral evolution equations. III. **90a:58196**
— (*with* Ji, Xiao Da) New symmetries for integrable equations, Lie algebras and nonisospectral evolution equations. V. (Chinese) **90b:58282**
— (*with* Ji, Xiao Da) New set of symmetries of the integrable equations, Lie algebra and nonisospectral evolution equations. V. **90j:58169**
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Abe, Mitsuo (*with* Nakanishi, Noboru) Supersymmetric extension of the three-dimensional local Lorentz symmetry and the Chern-Simons term. **90c:81132**
Ahmed, Mosleh U. Introducing a similarity solution for a nonlinear PDE. (Bengali summary) **90b:35012**
Akhatov, I. Sh. (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Thirteen basic types of invariant equations of gas dynamics. (Russian) **90e:76095**
Alexopoulos, Georges Quelques propriétés des fonctions harmoniques positives sur les groupes de Lie résolubles à croissance polynomiale du volume. (English summary) [Some properties of positive harmonic functions on solvable Lie groups of polynomial growth] **90c:22027**
de Alwis, S. P. Gauge symmetry breaking in compactified heterotic strings. **90a:81107**
Ames, Karen A. Group properties of a one-dimensional system of equations for wave propagation in various media. **90h:35014**
Ames, W. F. (*with* Donato, Andrea; Nucci, Maria Clara) Analysis of the threadline equations. **90i:35224**
Andreev, V. K. (*with* Rodionov, A. A.) Group classification and exact solutions of equations of plane and rotational-symmetric flow of an ideal fluid in Lagrangian coordinates. **90d:76019**
Arik, M. (*with* Neyzi, Fahrünisa; Nutku, Yavuz; Olver, Peter J.; Verosky, John M.) Multi-Hamiltonian structure of the Born-Infeld equation. **90b:58059**
Artem′ev, A. Yu. Classification of quantum Markov kinetic equations of spin systems with respect to symmetry groups of the environment. **90i:82011**
Bagrov, V. G. (*with* Obukhov, V. V.) Complexification of the method of complete separation of variables in the Hamilton-Jacobi equation. **90c:78001**
Bakas, I. Hamiltonian reduction and conformal symmetries in two dimensions. **90c:81150**
Ball, R. D. Chiral gauge theory. **90i:81063**
Barannik, A. F. Subalgebras of the generalized Poincaré algebra $AP(p,q)$. (Russian) **90i:17012**
Barannik, L. F. (*with* Marchenko, V. A.) Symmetry reduction of the nonlinear Schrödinger equation. (Russian) **90g:35132**
— Invariants of subgroups of the extended Poincaré group $\widetilde{P}(1,n)$. (Russian) **90h:22005**
— (*with* Fushchich, V. I.) Continuous subgroups of the generalized Schrödinger groups. **90h:17012**
Barroso, Augusto *see* **Freire, F.; et al., 90i:81047**
Batalin, I. A. (*with* Vilkoviskiĭ, G. A.) Closure of the gauge algebra, generalized Lie equations, and Feynman rules. **90d:81084**
Batlle, C. (*with* Gomis, J.; Gràcia, X.; Pons, J. M.) Noether's theorem and gauge transformations: application to the bosonic string and CP_2^{n-1} model. **90d:81085**
Baulieu, Laurent (*with* Singer, I. M.) Topological Yang-Mills symmetry. **90f:58004**
Benguria, Rafael D. (*with* Depassier, M. Cristina) Equations of the Korteweg-de Vries type with nontrivial conserved quantities. **90h:58038**
Bernido, Christopher C. *see* **Carpio-Bernido, M. Victoria, 90c:81030**
Bidaut-Véron, Marie-Françoise (*with* Véron, Laurent) Groupe conforme de S^2 et propriétés limites des solutions de $-\Delta u=\lambda e^u$. (English summary) [Conformal group of S^2 and limit properties of solutions of $-\Delta u=\lambda e^u$] **90i:35093**
Bocharov, A. V. (*with* Bronshteĭn, M. L.) Efficiently implementing two methods of the geometrical theory of differential equations: an experience in algorithm and software design. **90j:65002**
Bos, Michiel (*with* Nair, V. P.) U(1) Chern-Simons theory and $c=1$ conformal blocks. **90i:81066**
Boyer, C. P. (*with* Winternitz, P.) Symmetries of the self-dual Einstein equations. I. The infinite-dimensional symmetry group and its low-dimensional subgroups. **90j:83049**
Branson, Thomas P. Group representations arising from Lorentz conformal geometry. **90b:22016**
Brihaye, Y. (*with* Kunz, J.) Summable chains of instantons and their symmetries. **90j:81105**
Bronshteĭn, M. L. *see* **Bocharov, A. V., 90j:65002**
Bruzzo, Ugo (*with* Landi, Giovanni) Simple proof of Weil triviality in supersymmetric gauge theories. **90h:53091**
Budd, Chris Symmetry breaking and semilinear elliptic equations. **90m:65209**
Bytev, V. O. Building of mathematical models of continuum media on the basis of the invariance principle. **90g:73017**
Cappelli, Andrea The *A-D-E* classification of conformal invariant field theories in two dimensions. (*see* **90h:81004**)
Carpio-Bernido, M. Victoria (*with* Bernido, Christopher C.) Algebraic treatment of a double ring-shaped oscillator. **90c:81030**
Case, K. M. (*with* Monge, A.) Explicitly time-dependent constants/symmetries of the higher-order KP equations. **90f:58083**
Cates, A. T. A point transformation between forms of the generalised Burgers equation. **90d:35253**
Chaabouni-Sellami, Amel Relations entre les fonctions moyennes sur un espace préhomogène. (English summary) [Relations among mean functions on a prehomogeneous space] **90k:22010**
Chaichian, M. (*with* Lukierski, J.) $N=1$ super-WZW and $N=1,2,3,4$ super-KdV models as $D=2$ current superfield theories. **90c:81078**
Chak″rov, Edi Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) **90g:22007**
Chang, Darwin (*with* Kumar, Alok^2) Some special points in the moduli space of $c=N$ conformal field theory. **90k:81192**
Cheng, Cho-Ming (*with* Fung, P. C. W.) The $\mathrm{SU}(2)\oplus h(4)$ Hamiltonian. **90k:81057**
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58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.)

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